



Expertise in chemistry and catalysis

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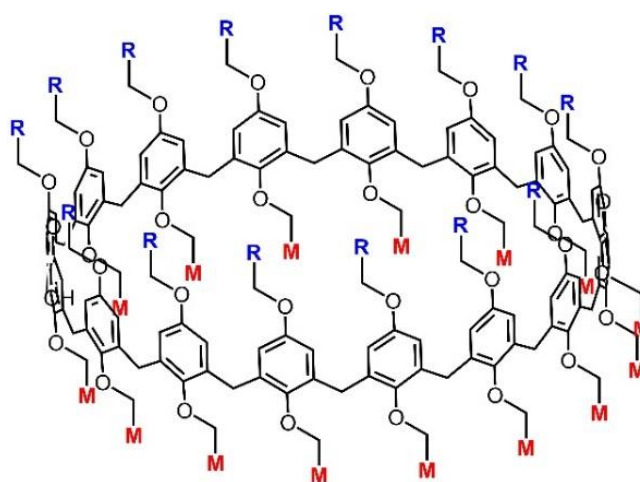


Product catalogue – NOVECAL

Catalysts and ligands

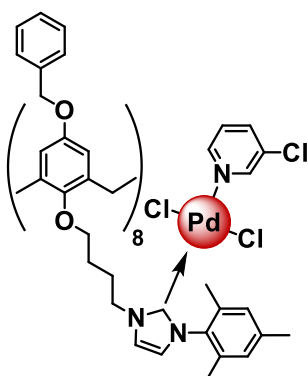


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Supported catalysts

Supported Pd-NHC catalyst NOVECAT G1-01

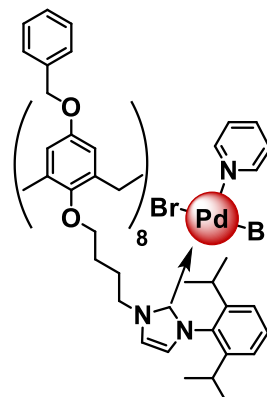


$C_{280}H_{288}Cl_{24}N_{24}O_{16}Pd_8$, $M = 5947.67 \text{ g}\cdot\text{mol}^{-1}$
CAS: 2225985-83-9
Suzuki coupling

Reference	Packing unit	Price (€)
NOVECAT G1-01	1g	250

Please contact us for larger quantities.

Supported Pd-NHC catalyst NOVECAT G1-02

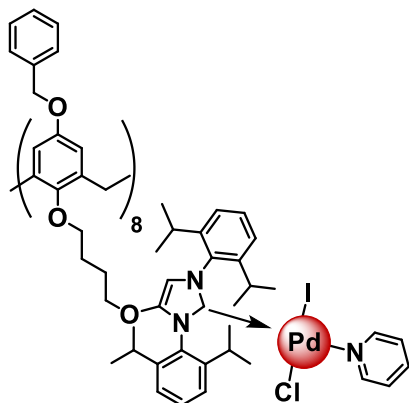


$C_{304}H_{344}Br_{16}N_{24}O_{16}Pd_8$, $M = 6720.07 \text{ g}\cdot\text{mol}^{-1}$
CAS: 2225985-82-8
Suzuki coupling with bulky substrates

Reference	Packing unit	Price (€)
NOVECAT G1-02	1g	310

Please contact us for larger quantities.

Supported Pd-NHC catalyst NOVECAT G2-01

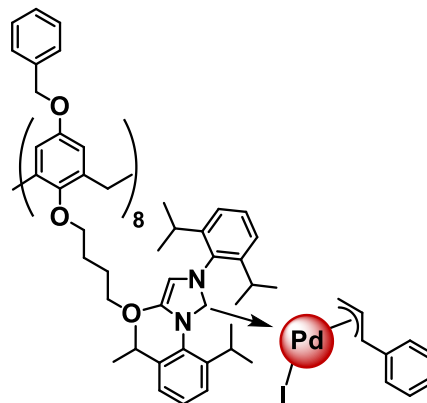


$C_{400}H_{472}N_{24}O_{24}Pd_8Cl_8I_8$, $M = 8150.52 \text{ g}\cdot\text{mol}^{-1}$
Suzuki coupling with very bulky substrates

Reference	Packing unit	Price (€)
NOVECAT G2-01	1g	430

Please contact us for larger quantities.

Supported Pd-NHC catalyst NOVECAT G2-02



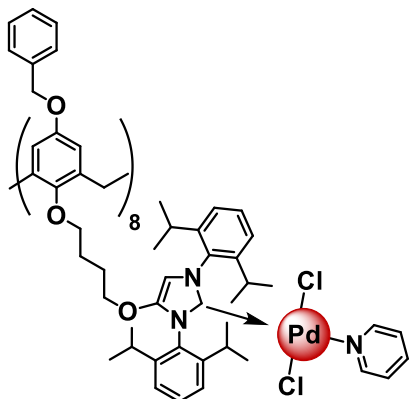
$C_{432}H_{504}Pd_8I_8N_{16}O_{24}$, $M = 8171.47 \text{ g}\cdot\text{mol}^{-1}$
CAS: 2676929-10-3
Buchwald coupling

Reference	Packing unit	Price (€)
NOVECAT G2-02	1g	450

Please contact us for larger quantities.

Supported catalysts

Supported Pd-NHC catalyst NOVECOT G2-03



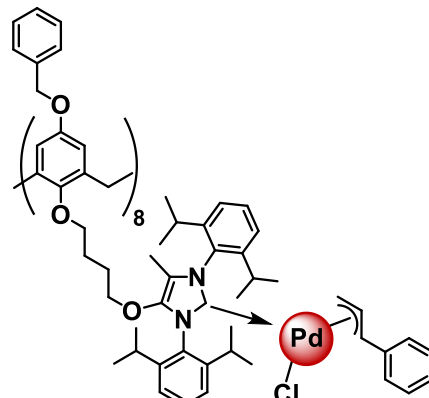
$C_{400}H_{472}N_{24}O_{24}Pd_8Cl_{16}$, $M = 7418.88 \text{ g.mol}^{-1}$
CAS: 2767563-35-7

Suzuki coupling with challenging aryl halides

Reference	Packing unit	Price (€)
NOVECOT G2-03	1g	470

Please contact us for larger quantities.

Supported Pd-NHC catalyst NOVECOT G3-01



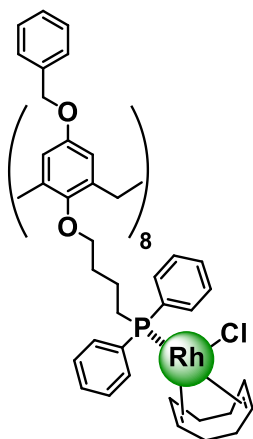
$C_{440}H_{520}N_{16}O_{24}Pd_8Cl_8$, $M = 7552.05 \text{ g.mol}^{-1}$
CAS: 2676934-90-8

Buchwald coupling with challenging amines

Reference	Packing unit	Price (€)
NOVECOT G3-01	1g	500

Please contact us for larger quantities.

Supported Rh-phosphine catalyst NOVECOT Rh-01



$C_{304}H_{328}Cl_8O_{16}P_8Rh_8$, $M = 5592.59 \text{ g.mol}^{-1}$
CAS: 2225985-84-0

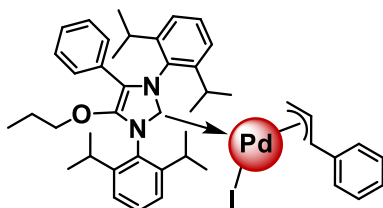
Hydrogenation – in progress

Reference	Packing unit	Price (€)
NOVECOT Rh-01	1g	500

Please contact us for larger quantities.

Homogeneous catalysts

Homogeneous Pd-NHC catalyst NOVECAT G4-01

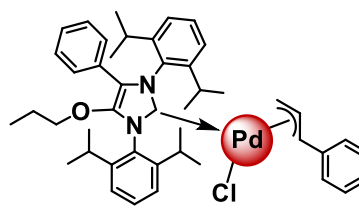


$C_{45}H_{55}N_2OPdI$, $M = 873.27 \text{ g}\cdot\text{mol}^{-1}$
C-C and C-N couplings at low catalyst loading

Reference	Packing unit	Price (€)
NOVECAT G4-01-1g	1g	245
NOVECAT G4-01-5g	5g	1020

Please contact us for larger quantities.

Homogeneous Pd-NHC catalyst NOVECAT G4-02

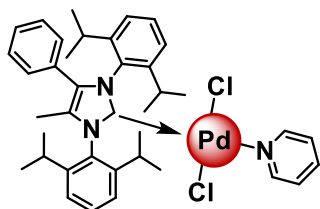


$C_{45}H_{55}N_2OPdCl$, $M = 781.82 \text{ g}\cdot\text{mol}^{-1}$
C-C and C-N couplings at low catalyst loading

Reference	Packing unit	Price (€)
NOVECAT G4-02-1g	1g	285
NOVECAT G4-02-5g	5g	1110

Please contact us for larger quantities.

Homogeneous Pd-NHC catalyst NOVECAT G5-03

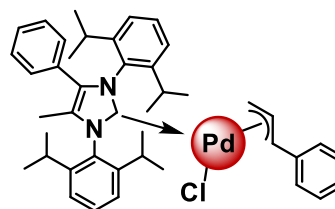


$C_{39}H_{47}N_3PdCl_2$, $M = 735.15 \text{ g}\cdot\text{mol}^{-1}$
C-C couplings at very low catalyst loading,
and with highly challenging substrates

Reference	Packing unit	Price (€)
NOVECAT G5-03-1g	1g	295
NOVECAT G5-03-5g	5g	1150

Please contact us for larger quantities

Homogeneous Pd-NHC catalyst NOVECAT G5-04



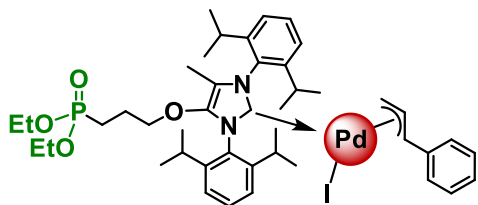
$C_{43}H_{51}N_2PdCl$, $M = 737.77 \text{ g}\cdot\text{mol}^{-1}$
C-N couplings at very low catalyst loading,
and with highly challenging substrates

Reference	Packing unit	Price (€)
NOVECAT G5-04-1g	1g	305
NOVECAT G5-04-5g	5g	1190

Please contact us for larger quantities.

Graftable homogeneous catalyst

Homogeneous Pd-NHC catalyst NOVECAT G3-PO(OEt)₂



$C_{44}H_{62}N_2O_4PPdI$, $M = 947.29 \text{ g}\cdot\text{mol}^{-1}$

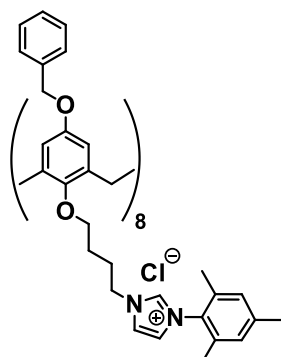
Easy grafting on metal oxides for clean and efficient
C-C and C-N couplings at low catalyst loading,
Applications in batch or flow processes

Reference	Packing unit	Price (€)
NOVECAT G3-PO(OEt) ₂ -1g	1g	355
NOVECAT G3-PO(OEt) ₂ -5g	5g	1555

Please contact us for larger quantities.

Supported ligands

Bz-calix[8]-C4- mesitylimidazolium-Cl NOVELIG G1-CL01

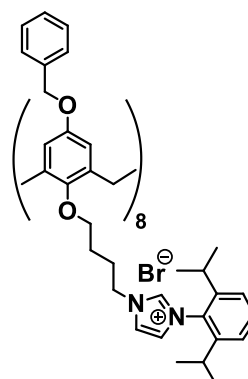


$C_{240}H_{264}Cl_8N_{16}O_{16}$, $M = 3912.45 \text{ g}\cdot\text{mol}^{-1}$
CAS: 2225872-20-6

Reference	Packing unit	Price (€)
CL01-1	1g	180

Please contact us for larger quantities.

Bz-calix[8]-C4- iPr₂Ph-imidazolium-Br – NOVELIG G1-CL02

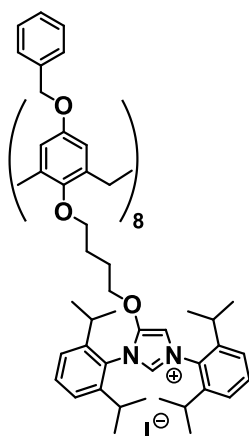


$C_{264}H_{312}Br_8N_{16}O_{16}$, $M = 4604.73 \text{ g}\cdot\text{mol}^{-1}$
CAS: 2225872-23-9

Reference	Packing unit	Price (€)
CL02-1	1g	190

Please contact us for larger quantities.

Bz-calix[8]-C4- [bis(iPr₂Ph)-imidazolium-I] NOVELIG G2-CL05

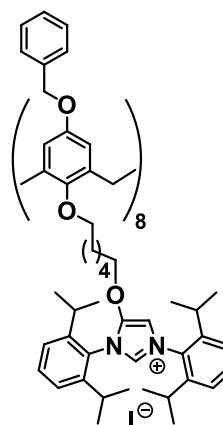


$C_{360}H_{440}I_8N_{16}O_{24}$, $M = 6390.80 \text{ g}\cdot\text{mol}^{-1}$
CAS: 2676928-30-4

Reference	Packing unit	Price (€)
CL05-1	1g	230

Please contact us for larger quantities.

Bz-calix[8]-C6- [bis(iPr₂Ph)-imidazolium-I] NOVELIG G2-CL06



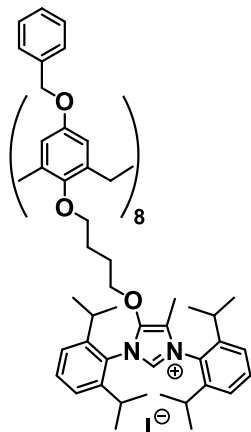
$C_{376}H_{472}I_8N_{16}O_{24}$, $M = 6615.24 \text{ g}\cdot\text{mol}^{-1}$
CAS: 2770427-00-2

Reference	Packing unit	Price (€)
CL06-1	1g	230

Please contact us for larger quantities.

Supported ligands

4-[Bz-calix[8]-C4]-5-methyl- 1,3-[bis(iPr₂Ph)]-imidazolium-I NOVELIG G3-CL07

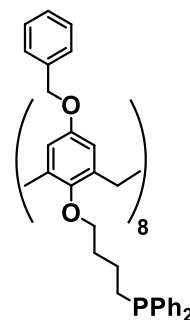


$C_{368}H_{456}I_8N_{16}O_{24}$, $M = 6503.02 \text{ g}\cdot\text{mol}^{-1}$
CAS: 2676928-84-8

Reference	Packing unit	Price (€)
CL07-1	1g	250

Please contact us for larger quantities.

Bz-calix[8]-C4-PPh₂ NOVELIG CL04



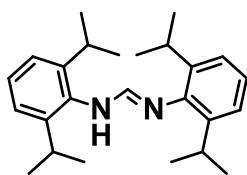
$C_{240}H_{232}O_{16}P_8$, $M = 3620.27 \text{ g}\cdot\text{mol}^{-1}$

Reference	Packing unit	Price (€)
CL04-1	1g	190
CL04-5	5g	600

Please contact us for larger quantities.

Carbene precursors

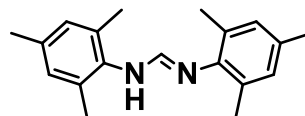
Bis(iPr₂Ph)-formamidine L10



C₂₅H₃₆N₂, M= 364.58 g.mol⁻¹
CAS: 581776-24-1

Reference	Packing unit	Price (€)
L10-5	5g	150
L10-25	25g	400
L10-100	100g	830
L10-500	500g	2000

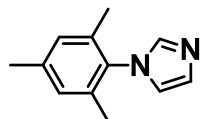
Bis(mesityl)-formamidine L11



C₁₉H₂₄N₂, M= 280.42 g.mol⁻¹
CAS: 75105-48-5

Reference	Packing unit	Price (€)
L11-5	5g	130
L11-25	25g	350
L11-100	100g	780
L11-500	500g	1800

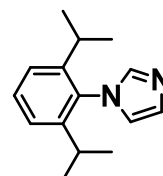
Mesitylimidazole L01



C₁₂H₁₄N₂, M= 186.26 g.mol⁻¹
CAS: 25364-44-7

Reference	Packing unit	Price (€)
L01-1	1g	80
L01-5	5g	335
L01-10	10g	575
L01-50	50g	1345

Diisopropylphenylimidazole L02

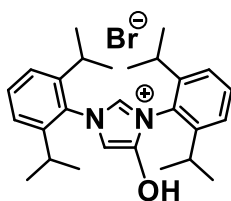


C₁₅H₂₀N₂, M= 228.34 g.mol⁻¹
CAS: 25364-47-0

Reference	Packing unit	Price (€)
L02-1	1g	80
L02-5	5g	350
L02-10	10g	580
L02-50	50g	1600

Carbene precursors

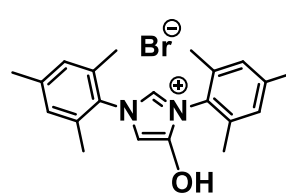
4-Hydroxy- bis(iPr₂Ph)-imidazolium-Br L03



C₂₇H₃₇BrN₂O, M= 485.51 g.mol⁻¹
CAS: 2676172-20-4

Reference	Packing unit	Price (€)
L03-1	1g	90
L03-5	5g	300
L03-10	10g	490
L03-50	50g	1560

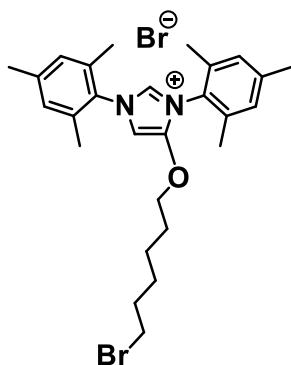
4-Hydroxy- bis(mesityl)-imidazolium-Br L04



C₂₁H₂₅BrN₂O, M= 401.35 g.mol⁻¹

Reference	Packing unit	Price (€)
L04-1	1g	80
L04-5	5g	250
L04-10	10g	450
L04-50	50g	1360

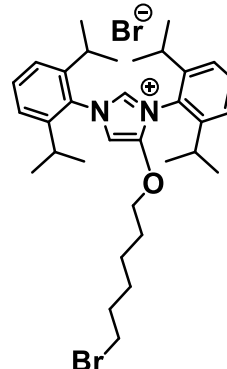
4-(6-Bromohexyloxy)- bis(mesityl)-imidazolium-Br L05



C₂₇H₃₆Br₂N₂O, M= 564.41 g.mol⁻¹

Reference	Packing unit	Price (€)
L05-1	1g	140
L05-5	5g	490
L05-10	10g	830
L05-50	50g	2310

4-(6-Bromohexyloxy)- bis(iPr₂Ph)-imidazolium-Br L06



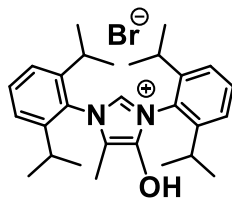
C₃₃H₄₈Br₂N₂O, M= 648.57 g.mol⁻¹

Reference	Packing unit	Price (€)
L06-1	1g	130
L06-5	5g	525
L06-10	10g	920
L06-50	50g	2630

Carbene precursors

4-Hydroxy-5-methyl-bis(iPr₂Ph)-imidazolium-Br

L12

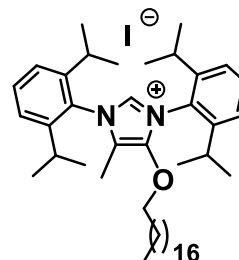


C₂₈H₃₉BrN₂O, M= 499.54 g.mol⁻¹
CAS: 2676172-22-6

Reference	Packing unit	Price (€)
L12-1	1g	130
L12-5	5g	430
L12-10	10g	705
L12-50	50g	2240

4-(Octadecyloxy)-5-methyl-bis(iPr₂Ph)-imidazolium-I

L13



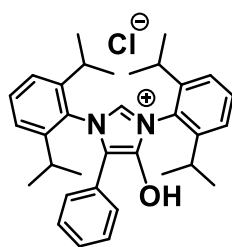
C₄₆H₇₅IN₂O, M= 799.02 g.mol⁻¹

Reference	Packing unit	Price (€)
L13-1	1g	150
L13-5	5g	490
L13-10	10g	830

Please contact us for larger quantities

4-Hydroxy-5-phenyl-bis(iPr₂Ph)-imidazolium-Cl

L14



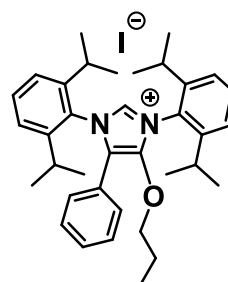
C₃₃H₄₁ClN₂O, M= 517.15 g.mol⁻¹

Reference	Packing unit	Price (€)
L14-1	1g	160
L14-5	5g	640
L14-10	10g	1060

Please contact us for larger quantities

5-Phenyl-4-propyloxy-bis(iPr₂Ph)-imidazolium-I

L15



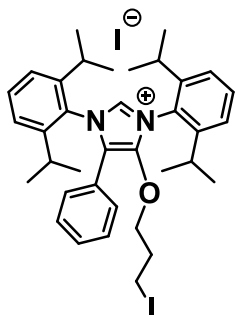
C₃₆H₄₇IN₂O, M= 650.69 g.mol⁻¹

Reference	Packing unit	Price (€)
L15-1	1g	210
L15-5	5g	830
L15-10	10g	1415

Please contact us for larger quantities

Carbene precursors

5-Phenyl-4-(3-iodopropoxy)-bis(iPr₂Ph)-imidazolium-I L16

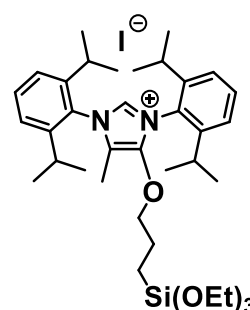


C₃₆H₄₆I₂N₂O, M= 776.59 g.mol⁻¹

Reference	Packing unit	Price (€)
L16-1	1g	225
L16-5	5g	890
L16-10	10g	1515

Please contact us for larger quantities

5-Methyl-4-(3-(triethoxysilyl)propoxy)-bis(iPr₂Ph)-imidazolium-I L17

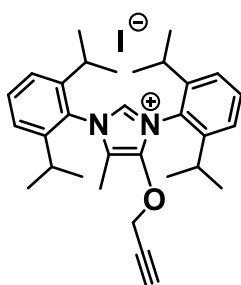


C₃₉H₅₉IN₂O₄Si, M= 750.88 g.mol⁻¹

Reference	Packing unit	Price (€)
L17-1	1g	180
L17-5	5g	570
L17-10	10g	890

Please contact us for larger quantities

5-Methyl-4-(prop-2-ynoxy)-bis(iPr₂Ph)-imidazolium-I L18

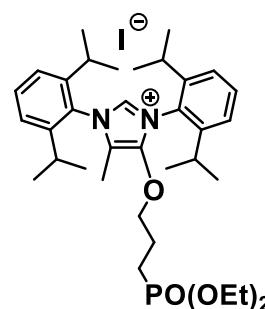


C₃₁H₄₁IN₂O, M= 584.59 g.mol⁻¹

Reference	Packing unit	Price (€)
L18-1	1g	210
L18-5	5g	660
L18-10	10g	1030

Please contact us for larger quantities

4-(3-Diethoxyphosphoryl-propoxy)-5-methyl-bis(iPr₂Ph)-imidazolium-I L19



C₃₅H₅₄IN₂O₄P, M= 724.71 g.mol⁻¹

Reference	Packing unit	Price (€)
L19-1	1g	230
L19-5	5g	725
L19-10	10g	1130

Please contact us for larger quantities