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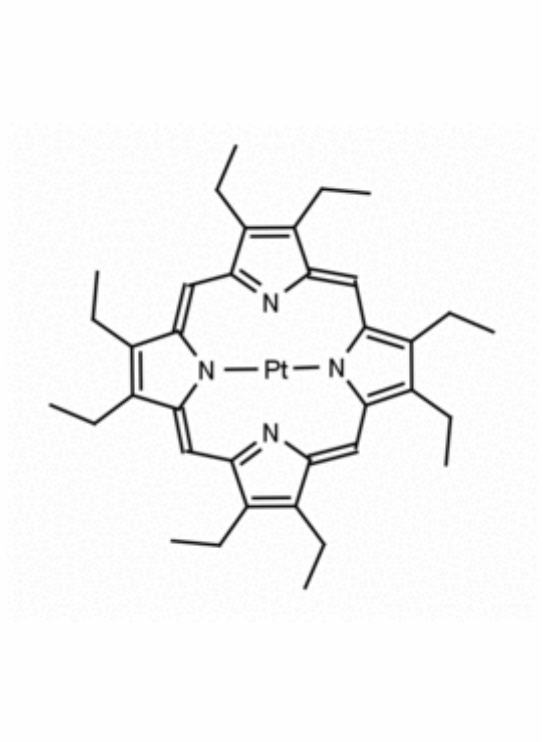
Technical Data Sheet
Catalog Number: **PtO534**

For research use only
Not intended or approved for diagnostic or therapeutic use.

Product Name: Pt(II) Octaethylporphine (PtOEP)

Catalog Number: **PtO534**



Sizes Available: 100 mg, 250 mg, 1 g, 5 g, and larger sizes available

Molecular weight: 727.84 g/mol

Molecular Formula: $C_{36}H_{44}N_4Pt$

CAS Number: 31248-39-2

Storage: Store at room temperature, protect from light

Synonyms: 31248-39-2, Pt(II) Octaethylporphine(PtOEP), AKOS015963121

Field of Interest: Photo-Optics, Phosphorescent Energy Transfer, LEDs, Oxygen Sensor

Background: Pt(II) Octaethylporphine (PtOEP) is a porphyrin based synthetic product that possesses phosphorescent properties and is a probe of triplet behavior and useful in energy transfer and electrophosphorescent devices. [1,2] It also is useful in polymer LEDs as an efficient triplet emitter, and as a stable optical oxygen sensor. [3,4]

References:

1) Baldo, M. A.; O'Brien, D. F.; You, Y.; Shoustikov, A.; Sibley, S.; Thompson, M. E.; Forrest, S. R, Highly efficient phosphorescent emission from organic electroluminescent devices, Nature (London) (1998), 395(6698), 151-154. DOI:10.1038/25954.

2) O'Brien, D. F.; Baldo, M. A.; Thompson, M. E.; Forrest, S. R., Improved energy transfer in electrophosphorescent devices, Applied Physics Letters (1999), 74(3), 442-444. DOI:10.1063/1.123055.

3) Cleave, Vicki; Yahioglu, Goghan; Le Barny, Pierre; Friend, Richard H.; Tessler, Nir, Harvesting singlet and triplet energy in polymer LEDs, Advanced Materials (Weinheim, Germany) (1999), 11(4), 285-288. DOI:10.1002/(SICI)1521-4095(199903)11:4.

4) Palma, Alberto J.; Lopez-Gonzalez, Javier; Asensio, Luis J.; Fernandez-Ramos, Maria Dolores; Capitan-Vallvey, Luis Fermin, Microcontroller-based portable instrument for stabilized optical oxygen sensor, Sensors and Actuators, B: Chemical (2007), 121(2), 629-638. DOI:10.1016/j.snb.2006.03.056