Data Sheet (Cat.No.TYD-01757)

TargetMol

Pd(II)TMPyP tetrachloride

Chemical Properties

CAS No. : 110314-07-3

Formula: C44H36Cl4N8Pd

Molecular Weight: 925.04

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Pd(II)TMPyP tetrachloride is a porphyrin-based photosensitizer and G-quadruplex stabilizer. It induces apoptosis via singlet oxygen generation and acts as an optical oxygen sensor.
Targets(IC50)	Apoptosis
In vitro	Pd(II)TMPyP tetrachloride binding modes depend on DNA base composition: intercalation in G-C regions (negative ICD) and groove binding in A-T regions (positive ICD)[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.081 mL	5.4052 mL	10.8103 mL
5 mM	0.2162 mL	1.081 mL	2.1621 mL
10 mM	0.1081 mL	0.5405 mL	1.081 mL
50 mM	0.0216 mL	0.1081 mL	0.2162 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Trible RP, Narute P, Emert-Sedlak LA, Alvarado JJ, Atkins K, Thomas L, Kodama T, Yanamala N, Korotchenko V, Day BW, Thomas G, Smithgall TE. Discovery of a diaminoquinoxaline benzenesulfonamide antagonist of HIV-1 Nef function using a yeast-based phenotypic screen. Retrovirology.

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