Data Sheet (Cat.No.T65489)

TargetMol

Tris(4,7-diphenyl-1,10-phenanthroline)ruthenium(II) dichloride

Chemical Properties

CAS No. : 36309-88-3

Formula: C72H48Cl2N6Ru

Molecular Weight: 1169.17

Storage: Keep away from direct sunlight,Store under nitrogen,
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	Tris(4,7-diphenyl-1,10-phenanthroline)ruthenium(II) dichloride is utilized as a luminescent probe for the detection and quantification of oxygen, exhibiting an absorption maximum at 455 nm and a luminescence maximum at 613 nm. Tris(4,7-diphenyl-1,10-phenanthroline)ruthenium(II) dichloride is employed in fiber-optic sensor systems and in investigations of oxygen distribution in skin and skin tumors, as well as studies measuring oxygen flux across the skin. These properties support the application of Tris(4,7-diphenyl-1,10-phenanthroline)ruthenium(II) dichloride in oxygen sensing technologies, bioimaging, and physiological monitoring research.
Targets(IC50)	Others

Solubility Information

Solubility	Ethanol: 6.67 mg/mL (5.7 mM),Sonication is recommended. DMSO: 20 mg/mL (17.11 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8553 mL	4.2765 mL	8.5531 mL
5 mM	0.1711 mL	0.8553 mL	1.7106 mL
10 mM	0.0855 mL	0.4277 mL	0.8553 mL
50 mM	0.0171 mL	0.0855 mL	0.1711 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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481