

Ru(dpp)3(PF6)2

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 123148-15-2 |
| Formula: | C72H48F12N6P2Ru |
| Molecular Weight: | 1388.19 |
| 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

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|-------------|--|
| Description | Ru(dpp)3(PF6)2 is a complex containing the metal ruthenium (Ru) and acts as a chemiluminescent oxygen probe. The compound [Ru(dpp)3]2+ emits light via metal-to-ligand charge transfer (MLCT), where charge transfers from Ru to the ligand, resulting in fluorescence. This fluorescence is effectively quenched by molecular oxygen, making Ru(dpp)3(PF6)2 widely utilized in biosensors, environmental monitoring, and materials science. Additionally, the ability of Ru2+ in Ru(dpp)3(PF6)2 to oxidize to Ru3+ is instrumental in the design and development of solid-state electroluminescent cells. |
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Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|-----------|
| 1 mM | 0.7204 mL | 3.6018 mL | 7.2036 mL |
| 5 mM | 0.1441 mL | 0.7204 mL | 1.4407 mL |
| 10 mM | 0.072 mL | 0.3602 mL | 0.7204 mL |
| 50 mM | 0.0144 mL | 0.072 mL | 0.1441 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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