

KP1019

Chemical Properties

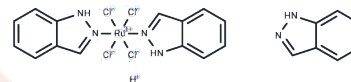
CAS No. : 124875-20-3

Formula: C₂₁H₁₉Cl₄N₆Ru

Molecular Weight: 598.30

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	KP1019 is now discontinued.
Targets(IC50)	Apoptosis,Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6714 mL	8.357 mL	16.714 mL
5 mM	0.3343 mL	1.6714 mL	3.3428 mL
10 mM	0.1671 mL	0.8357 mL	1.6714 mL
50 mM	0.0334 mL	0.1671 mL	0.3343 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

Jones MR, Mu C, Wang MC, Webb MI, Walsby CJ, Storr T. Modulation of the A β peptide aggregation pathway by KP1019 limits A β -associated neurotoxicity. *Metallomics*. 2015 Jan 24;7(1):129-35. doi: 10.1039/c4mt00252k. Epub 2014 Nov 12. PubMed PMID: 25387614.

Kuhn PS, Bächel GE, Jovanović KK, Filipović L, Radulović S, Rapta P, Arion VB. Osmium(III) analogues of KP1019: electrochemical and chemical synthesis, spectroscopic characterization, X-ray crystallography, hydrolytic stability, and antiproliferative activity. *Inorg Chem*. 2014 Oct 20;53(20):11130-9. doi: 10.1021/ic501710k. Epub 2014 Oct 7. PubMed PMID: 25290960.

Sadafi FZ, Massai L, Bartolommei G, Moncelli MR, Messori L, Tadini-Buoninsegni F. Anticancer ruthenium(III) complex KP1019 interferes with ATP-dependent Ca²⁺ translocation by sarco-endoplasmic reticulum Ca²⁺-ATPase (SERCA). *ChemMedChem*. 2014 Aug;9(8):1660-4. doi: 10.1002/cmdc.201402128. Epub 2014 Jun 11. PubMed PMID: 24920093.

Singh V, Azad GK, Reddy M A, Baranwal S, Tomar RS. Anti-cancer drug KP1019 induces Hog1 phosphorylation and protein ubiquitylation in *Saccharomyces cerevisiae*. *Eur J Pharmacol*. 2014 Aug 5;736:77-85. doi: 10.1016/j.ejphar.2014.04.032. Epub 2014 May 2. PubMed PMID: 24797784.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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