

RM175

Chemical Properties

CAS No. : 336876-16-5
Formula: C₁₄H₁₄ClF₆N₂PRu
Molecular Weight: 491.76
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	RM175 causes metastasis reduction.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0335 mL	10.1676 mL	20.3351 mL
5 mM	0.4067 mL	2.0335 mL	4.067 mL
10 mM	0.2034 mL	1.0168 mL	2.0335 mL
50 mM	0.0407 mL	0.2034 mL	0.4067 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

- Artner C, Holtkamp HU, Hartinger CG, Meier-Menches SM. Characterizing activation mechanisms and binding preferences of ruthenium metallo-prodrugs by a competitive binding assay. *J Inorg Biochem.* 2017 Dec;177:322-327. doi: 10.1016/j.jinorgbio.2017.07.010. Epub 2017 Jul 16. PubMed PMID: 28739166.
- Bergamo A, Gaiddon C, Schellens JH, Beijnen JH, Sava G. Approaching tumour therapy beyond platinum drugs: status of the art and perspectives of ruthenium drug candidates. *J Inorg Biochem.* 2012 Jan;106(1):90-9. doi: 10.1016/j.jinorgbio.2011.09.030. Epub 2011 Sep 29. Review. PubMed PMID: 22112845.
- Bergamo A, Masi A, Peacock AF, Habtemariam A, Sadler PJ, Sava G. In vivo tumour and metastasis reduction and in vitro effects on invasion assays of the ruthenium RM175 and osmium AFAP51 organometallics in the mammary cancer model. *J Inorg Biochem.* 2010 Jan;104(1):79-86. doi: 10.1016/j.jinorgbio.2009.10.005. Epub 2009 Oct 14. PubMed PMID: 19906432.
- Bratsos I, Jedner S, Bergamo A, Sava G, Gianferrara T, Zangrando E, Alessio E. Half-sandwich Ru II[9]aneS3 complexes structurally similar to antitumor-active organometallic piano-stool compounds: preparation, structural characterization and in vitro cytotoxic activity. *J Inorg Biochem.* 2008 May-Jun;102(5-6):1120-33. doi: 10.1016/j.jinorgbio.2008.01.005. Epub 2008 Jan 9. PubMed PMID: 18279961.

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