

Miriplatin hydrate

Chemical Properties

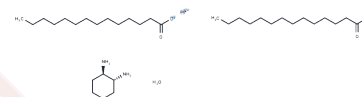
CAS No. : 250159-48-9

Formula: C34H70N2O5Pt

Molecular Weight: 782.01

Storage:

Keep away from direct sunlight, The compound is unstable in solution. Please use soon
 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	Miriplatin hydrate (SM-11355 (hydrate)) (MPT) is a novel platinum complex used in TACE that shows promise for the treatment of hepatocellular carcinoma (HCC). Miriplatin hydrate is a lipophilic platinum complex that can be easily suspended in Lipiodol and gradually releases active platinum compounds in tumor tissue.
Targets(IC50)	DNA Alkylation, DNA Alkylator/Crosslinker

Solubility Information

Solubility	H2O: Insoluble, DMSO: < 1 mg/mL (insoluble or slightly soluble), DMSO inactivates the activity of Miriplatin hydrate. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2788 mL	6.3938 mL	12.7876 mL
5 mM	0.2558 mL	1.2788 mL	2.5575 mL
10 mM	0.1279 mL	0.6394 mL	1.2788 mL
50 mM	0.0256 mL	0.1279 mL	0.2558 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

Yasui D, et al. Improved efficacy of transcatheter arterial chemoembolization using warmed miriplatin for hepatocellular carcinoma. *Biomed Res Int.* 2014;2014:359296.

Arai H, et al. Safety and efficacy of balloon-occluded transcatheter arterial chemoembolization using miriplatin for hepatocellular carcinoma. *Hepatol Res.* 2014 Aug 8.

Ishikawa T, et al. Predictive factor of local recurrence after balloon-occluded TACE with miriplatin (MPT) in hepatocellular carcinoma. *PLoS One.* 2014 Jul 21;9(7):e103009.

Ito T, Okubo H, Kokubu S, Miyazaki A, Ando H, Fujimura A, Watanabe S. Radiofrequency ablation combined with chemolipiodolization in a porcine liver: Comparison of the pharmacokinetic analysis with cisplatin powder and miriplatin. *Hepatol Res.* 2014 Jul 7. doi: 10.1111/hepr.12387. [Epub ahead of print] PubMed PMID: 25040841.

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