

## Pt(IV)-M13

## Chemical Properties

CAS No. :

Formula: C120H190ClF8N30O28Pt52

Molecular Weight: 2947.63

Keep away from moisture

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	Pt(IV)-M13 is a platinum (IV) prodrug conjugated with a perfluoroaryl macrocyclic peptide, capable of crossing the blood-brain barrier. It exhibits cytotoxicity towards glioblastoma stem cells and enhances platinum uptake in the brain, making it a valuable tool for glioblastoma research.
Targets(IC50)	Others
In vitro	Pt(IV)-M13, at concentrations ranging from 1-30 $\mu\text{M}$ over a duration of 80 hours, exhibits an IC50 of approximately 5 $\mu\text{M}$ against G9 neurospheres, similar to cisplatin.
In vivo	Administering a single dose of Pt(IV)-M13 (2.5 mg/kg;I.V.) to mice can significantly enhance platinum accumulation in the brain, achieving levels 15 times higher than those observed with cisplatin.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3393 mL	1.6963 mL	3.3926 mL
5 mM	0.0679 mL	0.3393 mL	0.6785 mL
10 mM	0.0339 mL	0.1696 mL	0.3393 mL
50 mM	0.0068 mL	0.0339 mL	0.0679 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.

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