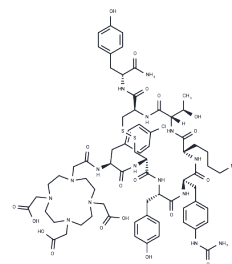


DOTA-LM3

Chemical Properties

CAS No. :	1192362-32-5
Formula:	C ₆₉ H ₉₃ ClN ₁₆ O ₁₉ S ₂
Molecular Weight:	1550.16
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	DOTA-LM3 is a somatostatin receptor (SSTR) antagonist, with LM3 denoting the peptide sequence p-Cl-Phe-cyclo(D-Cys-Tyr-D-4-amino-Phe(carbamoyl)-Lys-Thr-Cys)D-Tyr-NH ₂ . It is utilized in the isotopic labeling of tumors for in vivo tracing, notably with ¹⁷⁷ Lu-DOTA-LM3 and ⁶⁸ Ga-DOTA-LM3. The derivative ⁶⁸ Ga-DOTA-LM3 exhibits promising biodistribution, high tumor uptake, efficient tumor retention, and minimal safety concerns, while ¹⁷⁷ Lu-DOTA-LM3 is applied in research on DOTATOC-negative liver metastases including pancreatic NET and extensive tumor thrombosis [1] [2].
Targets(IC50)	Somatostatin
In vitro	The chemical compound ¹⁷⁷ Lu-DOTA-LM3 is well-tolerated. It predominantly localizes in the whole body, kidneys, spleen, and metastatic lesions, resulting in higher average absorbed doses in these organs and tumors [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6451 mL	3.2255 mL	6.4509 mL
5 mM	0.129 mL	0.6451 mL	1.2902 mL
10 mM	0.0645 mL	0.3225 mL	0.6451 mL
50 mM	0.0129 mL	0.0645 mL	0.129 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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