

DOTA-LM3 TFA

Chemical Properties

CAS No. :

Formula: C71H94ClF3N16O21S2

Molecular Weight: 1664.18

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 | DOTA-LM3 TFA is a somatostatin receptor (SSTR) antagonist with the molecular structure p-Cl-Phe-cyclo(D-Cys-Tyr-D-4-amino-Phe(carbamoyl)-Lys-Thr-Cys)D-Tyr-NH ₂ , used for in vivo tumor tracing via isotopic labeling, such as ¹⁷⁷ Lu-DOTA-LM3 TFA and ⁶⁸ Ga-DOTA-LM3 TFA. The ⁶⁸ Ga-labeled compound shows favorable biodistribution, high tumor uptake, good tumor retention, and minimal safety concerns, while the ¹⁷⁷ Lu-labeled variant targets DOTATOC-negative liver metastases, including pancreatic NET and extensive tumor thrombosis [1] [2]. |
| Targets(IC50) | Others,Somatostatin |
| In vitro | The compound ¹⁷⁷ Lu-DOTA-LM3 TFA is tolerable and primarily accumulates in the systemic circulation, kidneys, spleen, and metastatic lesions, resulting in higher average absorbed doses to these organs and tumors [2]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|-----------|
| 1 mM | 0.6009 mL | 3.0045 mL | 6.009 mL |
| 5 mM | 0.1202 mL | 0.6009 mL | 1.2018 mL |
| 10 mM | 0.0601 mL | 0.3004 mL | 0.6009 mL |
| 50 mM | 0.012 mL | 0.0601 mL | 0.1202 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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