

Rofapitide tetraxetan

Chemical Properties

CAS No. : 2581741-18-4

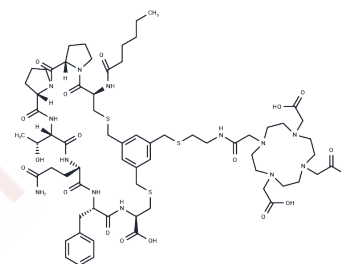
Formula: C67H99N13O18S3

Molecular Weight: 1470.77

Keep away from direct sunlight

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	Rofapitide tetraxetan (FAP-2286) is a high-affinity, selective inhibitor of fibroblast activating protein (FAP) and a DOTA-pseudopeptide with an IC ₅₀ of 1.3–2.2 nM. FAP-2286 targets the tumour microenvironment and can be radiolabelled (e.g., with ⁶⁸ Ga) for use in positron emission tomography (PET) imaging.
Targets(IC50)	Others, Immunology/Inflammation related
In vitro	Rofapitide tetraxetan exhibits high affinity for recombinant homo sapiens-derived and murine-derived FAP (KD values ranging between 0.2-4.7 nM) and demonstrates high selectivity in cell-based binding assays.
In vivo	Methods: ¹⁷⁷ Lu-Rofapitide tetraxetan (30MBq/nmol, single dose) was intravenously injected into HEK-FAP tumor-bearing mice, with tumor volume and body weight changes monitored to evaluate the anti-tumor efficacy of Rofapitide tetraxetan. Results: ¹⁷⁷ Lu-Rofapitide tetraxetan demonstrated significant anti-tumor activity, markedly reducing tumor volume without causing significant body weight loss.

Solubility Information

Solubility	DMSO: ≥ 40 mg/mL H ₂ O: ≥ 80 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6799 mL	3.3996 mL	6.7992 mL
5 mM	0.136 mL	0.6799 mL	1.3598 mL
10 mM	0.068 mL	0.340 mL	0.6799 mL
50 mM	0.0136 mL	0.068 mL	0.136 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

Zboralski D, et al. Preclinical evaluation of FAP-2286 for fibroblast activation protein targeted radionuclide imaging and therapy. Eur J Nucl Med Mol Imaging.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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