

DOTA-NI-FAPI-04

Chemical Properties

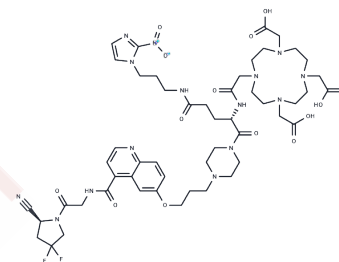
CAS No. :

Formula: C51H69F2N15O14

Molecular Weight: 1154.18

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-NI-FAPI-04 is an FAP inhibitor (IC ₅₀ = 7.44 nM). By integrating FAP targeting with hypoxia-sensitive groups (nitroimidazole), DOTA-NI-FAPI-04 significantly enhances tumor uptake and retention. Through DOTA chelation with metal isotopes (such as ⁶⁸ Ga and ¹⁷⁷ Lu), it forms radioactive probes ([⁶⁸ Ga]Ga/DOTA-NI-FAPI-04 and [¹⁷⁷ Lu]Lu/DOTA-NI-FAPI-04) useful for research in tumor diagnosis and therapeutics. This compound exhibits dual-targeting potential in cancer imaging, tumor microenvironment analysis, and radionuclide therapy, particularly in scenarios involving the interaction between tumor stroma and hypoxic regions.
Targets(IC ₅₀)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8664 mL	4.3321 mL	8.6642 mL
5 mM	0.1733 mL	0.8664 mL	1.7328 mL
10 mM	0.0866 mL	0.4332 mL	0.8664 mL
50 mM	0.0173 mL	0.0866 mL	0.1733 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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