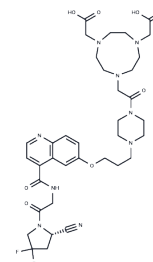


NOTA-FAPI

Chemical Properties

CAS No. :	2374782-03-1
Formula:	C ₃₆ H ₄₇ F ₂ N ₉ O ₈
Molecular Weight:	771.81
Storage:	Keep away from direct sunlight 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	NOTA-FAPI is a fibroblast activation protein (FAP) inhibitor and structural analogue of FAPI-4. NOTA-FAPI-4 serves as a diagnostic and therapeutic tool for diseases characterized by FAP overexpression, including its application as a positron emission tomography (PET) tracer for noninvasive imaging of FAP-associated pathological conditions and monitoring of therapeutic responses.
Targets(IC50)	Immunology/Inflammation related
In vitro	In U87MG cells, Al18F-NOTA-FAPI-4 exhibited the highest uptake rate (2.13±0.17 AD%) at 10 minutes, and this uptake could be blocked by unlabeled precursors. The IC50 value of NOTA-FAPI-4 was 1.73±0.93 nM, indicating its high affinity for FAP [1].
In vivo	In KM mice, Al18F-NOTA-FAPI demonstrated rapid renal clearance and low uptake in most normal organs. In U87MG tumor-bearing mice, the uptake in the tumor region was relatively high (35.29±1.00%ID/g), with a 33.72% decrease in uptake observed between 1 hour and 4 hours [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (103.65 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (4.28 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2957 mL	6.4783 mL	12.9566 mL
5 mM	0.2591 mL	1.2957 mL	2.5913 mL
10 mM	0.1296 mL	0.6478 mL	1.2957 mL
50 mM	0.0259 mL	0.1296 mL	0.2591 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

- Wang S, et al. Clinical translational evaluation of Al¹⁸F-NOTA-FAPI for fibroblast activation protein-targeted tumour imaging. *Eur J Nucl Med Mol Imaging*. 2021 Dec;48(13):4259-4271.
- Guo YH, et al. Comparison of ¹⁸F-AlF-NOTA-FAPI and ¹⁸F-FDG Imaging in a Patient With Gastric Signet-Ring Cell Carcinoma. *Clin Nucl Med*. 2021 Nov 1;46(11):929-930.
- Ge L, et al. Preclinical evaluation and pilot clinical study of [¹⁸F]AlF-NOTA-FAPI-04 for PET imaging of rheumatoid arthritis. *Eur J Nucl Med Mol Imaging*. 2022 Oct;49(12):4025-4036.

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