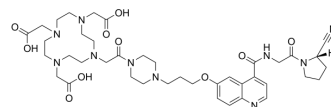


## FAPI-2

Cat. No.:	HY-128642		
CAS No.:	2370952-98-8		
Molecular Formula:	C <sub>40</sub> H <sub>56</sub> N <sub>10</sub> O <sub>10</sub>		
Molecular Weight:	836.93		
Target:	FAP		
Pathway:	Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 100 mg/mL (119.48 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg			5 mg			10 mg		
Preparing Stock Solutions	1 mM		1.1948 mL			5.9742 mL			11.9484 mL		
	5 mM		0.2390 mL			1.1948 mL			2.3897 mL		
	10 mM		0.1195 mL			0.5974 mL			1.1948 mL		

Please refer to the solubility information to select the appropriate solvent.

### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (2.99 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (2.99 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (2.99 mM); Clear solution

## BIOLOGICAL ACTIVITY

### Description

FAPI-2 is a quinoline-based therapeutic ligand targeting fibroblast activator protein. FAPI-2, a ligand for the synthesis of <sup>68</sup>Ga-FAPI-2, is a PET tracer. FAPI-2 is a fibroblast activating protein (FAP) inhibitor that can be used in cancer research<sup>[1][2]</sup>.

### IC<sub>50</sub> & Target

Fibroblast activation protein (FAP)<sup>[1]</sup>

## REFERENCES

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[1]. Moon ES, et al. Fibroblast Activation Protein (FAP) targeting homodimeric FAP inhibitor radiotheranostics: a step to improve tumor uptake and retention time. Am J Nucl Med Mol Imaging. 2021 Dec 15;11(6):476-491.

[2]. Giesel FL, et al. <sup>68</sup>Ga-FAPI PET/CT: Biodistribution and Preliminary Dosimetry Estimate of 2 DOTA-Containing FAP-Targeting Agents in Patients with Various Cancers. J Nucl Med. 2019 Mar;60(3):386-392.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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