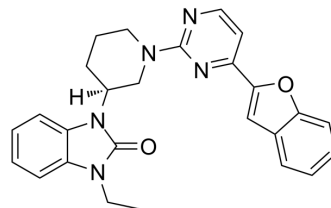


## TC-F2

Cat. No.:	HY-103462
CAS No.:	1304778-15-1
Molecular Formula:	C <sub>26</sub> H <sub>25</sub> N <sub>5</sub> O <sub>2</sub>
Molecular Weight:	439.51
Target:	FAAH
Pathway:	Metabolic Enzyme/Protease; Neuronal Signaling
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



## SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (568.82 mM; ultrasonic and warming and heat to 60°C)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.2753 mL	11.3763 mL	22.7526 mL
				5 mM	0.4551 mL	2.2753 mL	4.5505 mL
				10 mM	0.2275 mL	1.1376 mL	2.2753 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.08 mg/mL (4.73 mM); Suspended solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.73 mM); Clear solution						

## BIOLOGICAL ACTIVITY

Description	TC-F2 is a reversible non-covalent binding inhibitor of fatty acid amide hydrolase (FAAH) with an IC <sub>50</sub> of 28 nM. FAAH is involved in many human diseases, particularly cancer, pain and inflammation as well as neurological, metabolic and cardiovascular disorders <sup>[1]</sup> .
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## REFERENCES

[1]. Florian M Dato, et al. Characterization of fatty acid amide hydrolase activity by a fluorescence-based assay. Anal Biochem. 2018 Apr 1;546:50-57.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA