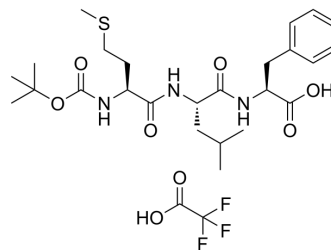


Boc-MLF TFA

Cat. No.:	HY-103473A
Molecular Formula:	C ₂₇ H ₄₀ F ₃ N ₃ O ₈ S
Molecular Weight:	623.68
Target:	Formyl Peptide Receptor (FPR)
Pathway:	GPCR/G Protein
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 150 mg/mL (240.51 mM; Need ultrasonic)					
	H ₂ O : < 0.1 mg/mL (insoluble)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.6034 mL	8.0169 mL	16.0339 mL
5 mM			0.3207 mL	1.6034 mL	3.2068 mL	
10 mM		0.1603 mL	0.8017 mL	1.6034 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: ≥ 2.5 mg/mL (4.01 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.01 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.01 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Boc-MLF (TFA) is a peptide, used as a specific formyl peptide receptor (FPR) antagonist, also inhibits the signaling through formyl peptide receptor like 1 (FPRL1) at higher concentrations ^[1] .
IC₅₀ & Target	FPR/FPRL1 ^[1]
In Vitro	Boc-MLF inhibits superoxide production induced by FPR agonist fMLF, with an EC ₅₀ of 630 nM in neutrophils ^[1] . ?Boc-MLF (25 μM) blocks FPRL1-agonist serum amyloid A (SAA) induced calcium response ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- iScience. 2023 Oct 3.
- World J Gastroenterol. 2023 Jun 14, 29(22): 3422-3439.
- SSRN. 2021 Mar 24.

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REFERENCES

[1]. Stenfeldt AL, et al. Cyclosporin H, Boc-MLF and Boc-FLFLF are antagonists that preferentially inhibit activity triggered through the formyl peptide receptor. Inflammation. 2007 Dec;30(6):224-9. Epub 2007 Aug 9.

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

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