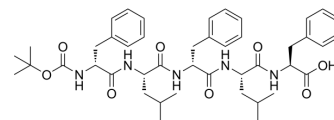


N-Boc-Phe-Leu-Phe-Leu-Phe

Cat. No.:	HY-P1795
CAS No.:	148182-34-7
Molecular Formula:	C ₄₄ H ₅₉ N ₅ O ₈
Molecular Weight:	785.97
Sequence Shortening:	Boc-FLFLF
Target:	Formyl Peptide Receptor (FPR)
Pathway:	GPCR/G Protein
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (127.23 mM; Need ultrasonic)
 H₂O : 1 mg/mL (1.27 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.2723 mL	6.3616 mL	12.7231 mL
	5 mM	0.2545 mL	1.2723 mL	2.5446 mL
	10 mM	0.1272 mL	0.6362 mL	1.2723 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (3.18 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N-Boc-Phe-Leu-Phe-Leu-Phe (Boc-FLFLF) is a formyl peptide receptor 1 (FPR1) antagonist, which increases pain effects and inhibits antinociceptive activity of annexin^{[1][2]}.

IC₅₀ & Target

FPR1^[1]

REFERENCES

[1]. Schepetkin IA, et al. Antagonism of human formyl peptide receptor 1 (FPR1) by chromones and related isoflavones. *Biochem Pharmacol.* 2014 Dec 15;92(4):627-41.

[2]. Pei L, et al. Annexin 1 exerts anti-nociceptive effects after peripheral inflammatory pain through formyl-peptide-receptor-like 1 in rat dorsal root ganglion. Br J Anaesth. 2011 Dec;107(6):948-58.

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

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