WKYMVM-NH2 TFA

Cat. No.:	HY-P1121A			
CAS No.:	1435781-74	-0		NH_2
Molecular Formula:	C ₄₃ H ₆₂ F ₃ N ₉ O	₉ S ₂		
Molecular Weight:	970.13			
Sequence Shortening:	WKYMVM-N	H2		
Target:	Formyl Pep	tide Rece	ptor (FPR)	F F F
Pathway:	GPCR/G Pro	otein		
Storage:	Sealed stor	age, 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

Preparing Stock Solutions	Mass Solvent Concentration	1 mg	5 mg	10 mg
	1 mM	1.0308 mL	5.1539 mL	10.3079 ml
	5 mM	0.2062 mL	1.0308 mL	2.0616 mL
	10 mM	0.1031 mL	0.5154 mL	1.0308 mL

BIOLOGICAL ACTIV				
Description	WKYMVM-NH2 TFA is a potent N-formyl peptide receptor (FPR1) and FPRL1/2 agonist, also activates several leukocyte effector functions such as chemotaxis, mobilization of complement receptor-3, and activation of the NADPH oxidase ^{[1][2][3]} .			
In Vitro	WKYMVM-NH2 TFA (10-1000 nM; 24 hours) induces Caco-2 cells proliferation ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay ^[3]			
	Cell Line:	Caco-2 cells (the intestinal epithelial cells)		
	Concentration:	0 nM, 10 nM, 100 nM, 1000 nM		
	Incubation Time:	24 hours		
	Result:	Induced cell proliferation.		

Product Data Sheet



In Vivo	WKYMVM-NH2 TFA (8 m WKYMVM-NH2 TFA affe MCE has not independe	WKYMVM-NH2 TFA (8 mg/kg; six times; for 5 days) ameliorates DSS-induced ulcerative colitis ^[3] . WKYMVM-NH2 TFA affects cytokine (IL-17, IFN-γ, IL-6, IL-1β and TNF-α) profiles in the DSS colitis model ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Six-week-old C57BL/6 mice, DSS model ^[3]		
	Dosage:	8 mg/kg		
	Administration:	Subcutaneously injected, six subcutaneous administrations at 12-h intervals, for 5 days		
	Result:	Attenuated the DSS-induced increase in the bleeding score and the stool score.		

REFERENCES

[1]. Christophe T, et al. The synthetic peptide Trp-Lys-Tyr-Met-Val-Met-NH2 specifically activates neutrophils through FPRL1/lipoxin A4 receptors and is an agonist for the orphan monocyte-expressed chemoattractant receptor FPRL2. J Biol Chem. 2001 Jun 15;276(24):21585-93.

[2]. Christophe T, et al. Phagocyte activation by Trp-Lys-Tyr-Met-Val-Met, acting through FPRL1/LXA4R, is not affected by lipoxin A4. Scand J Immunol. 2002 Nov;56(5):470-6.

[3]. Sang Doo Kim, et al. The immune-stimulating peptide WKYMVm has therapeutic effects against ulcerative colitis. Exp Mol Med. 2013 Sep; 45(9): e40.

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