WRW4

MedChemExpress

Cat. No.:	HY-P1119						
CAS No.:	878557-55-	Ç					
Molecular Formula:	C ₆₁ H ₆₅ N ₁₅ O ₆						
Molecular Weight:	1104.27						
Sequence Shortening:	WRWWW	HN HN					
Target:	Formyl Pep	H ₂ N NH					
Pathway:	GPCR/G Protein						
Storage:	Sealed stor Powder * In solvent	age, away -80°C -20°C : -80°C, 6 nder nitro	y from moisture and light, under nitrogen 2 years 1 year months; -20°C, 1 month (sealed storage, away from moisture				
	מות תצות, תותכו וות סצבוו/						

SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (90.56 mM; Need ultrasonic) H ₂ O : < 0.1 mg/mL (ultrasonic) (insoluble)							
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg			
		1 mM	0.9056 mL	4.5279 mL	9.0558 mL			
		5 mM	0.1811 mL	0.9056 mL	1.8112 mL			
		10 mM	0.0906 mL	0.4528 mL	0.9056 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 (2.26 mM); Suspended solution; Need ultrasonic							
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (2.26 mM); Suspended solution; Need ultrasonic							
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (2.26 mM); Clear solution							

BIOLOGICAL ACTIVITY

Description

WRW4, a specific formyl peptide receptor-like 1 (FPRL1) antagonist, inhibits WKYMVm binding to FPRL1 with an IC₅₀ of 0.23 μ M. WRW4 specifically inhibits the increase in intracellular calcium by the FPRL1 agonists MMK-1, amyloid beta42 (Abeta42) peptide, and F peptide^[1].

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Product Data Sheet

In Vitro

WRW4 inhibits Abeta42 peptide-induced superoxide generation and chemotactic migration of neutrophils, and also completely inhibits the internalization of Abeta42 peptide in human macrophages. WRW4 specifically blocks ERK phosphorylation downstream of FPRL1 by WKYMVm^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cancer Res. 2022 Aug 16;82(16):2887-2903.
- Cell Mol Biol Lett. 2023 Jan 19;28(1):4.
- J Agric Food Chem. 2022 Aug 17.

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REFERENCES

[1]. Bae YS, et al. Identification of peptides that antagonize formyl peptide receptor-like 1-mediated signaling. J Immunol. 2004;173(1):607-614.

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

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