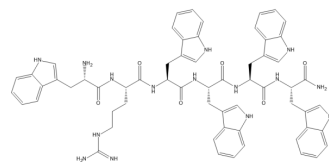


WRW4

Cat. No.:	HY-P1119
CAS No.:	878557-55-2
Molecular Formula:	C ₆₁ H ₆₅ N ₁₅ O ₆
Molecular Weight:	1104.27
Sequence Shortening:	WRWWWW-NH2
Target:	Formyl Peptide Receptor (FPR)
Pathway:	GPCR/G Protein
Storage:	Protect from light, stored under nitrogen
	Powder -80°C 2 years
	-20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (226.39 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (ultrasonic) (insoluble)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 6.25 mg/mL (5.66 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 6.25 mg/mL (5.66 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 6.25 mg/mL (5.66 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 μM. WRW4 specifically inhibits the increase in intracellular calcium by the FPRL1 agonists MMK-1, amyloid beta42 (Abeta42) peptide, and F peptide^[1].

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.
- J Agric Food Chem. 2022 Aug 17.

See more customer validations on www.MedChemExpress.com

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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