PBP10 TFA

Cat. No.: HY-P1116A

Molecular Formula: $C_{86}H_{128}F_3N_{24}O_{17}$

Molecular Weight: 1827.08

Sequence: RhB-Gln-Arg-Leu-Phe-Gln-Val-Lys-Gly-Arg-Arg-OH

Sequence Shortening: RhB-QRLFQVKGRR-OH

RhB-QRLFQVKGRR-OH (TFA salt)

Target: Bacterial

Pathway: Anti-infection

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

H_2O : 7.14 mg/mL (3.91 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.5473 mL	2.7366 mL	5.4732 mL
	5 mM	---	---	---
	10 mM	---	---	---

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

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 25 mg/mL (13.68 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

PBP10 is a cell permeable and selective gelsolin-derived peptide inhibitor of formyl peptide receptor 2 (FPR2) over FPR1[1]. PBP10 is a 10-AA peptide with rhodamine conjugated at its N terminus, exerts bactericidal activity against gram-positive and gram-negative bacteria and limits microbial-induced inflammatory effects[2].

IC_{50} & Target

IC50: formyl peptide receptor 2 (FPR2)[1]

CUSTOMER VALIDATION

- Cancer Res. 2022 Aug 16;82(16):2887-2903.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Ewelina Piktel, et al. Inhibition of inflammatory response in human keratinocytes by magnetic nanoparticles functionalized with PBP10 peptide derived from the PIP2-binding site of human plasma gelsolin. J Nanobiotechnology. 2019 Feb 2;17(1):22.

[2]. C C Cunningham, et al.Cell permeant polyphosphoinositide-binding peptides that block cell motility and actin assembly. J Biol Chem

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

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