Pepinh-TRIF TFA

Cat. No.: HY-P2565

Molecular Formula: $C_{180}H_{279}F_3N_{58}O_{40}S_2$

Molecular Weight: 4016.63

Sequence Shortening: RQIKIWFQNRRMKWKKFCEEFQVPGRGELH-NH2

RQIKIWFQNRRMKWKKFCEEFQVPGRGELH-NH_2 (TFA salt)

Target: Toll-like Receptor (TLR)

Pathway: Immunology/Inflammation

Storage: Sealed storage, away from moisture and light, under nitrogen

Powder -80°C 2 years

-20°C 1 year

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

SOLVENT & SOLUBILITY

In Vitro

H_2O : 50 mg/mL (12.45 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	0.2490 mL	1.2448 mL	2.4896 mL
5 mM	0.0498 mL	0.2490 mL	0.4979 mL
10 mM	0.0249 mL	0.1245 mL	0.2490 mL

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

BIOLOGICAL ACTIVITY

Description

Pepinh-TRIF (TFA) is a 30 aa peptide that blocks TIR-domain-containing adapter-inducing interferon-β (TRIF) signaling by interfering with TLR-TRIF interaction[1].

IC_{50} & Target

TLRs

In Vitro

Pepinh-TRIF (40 μM, 6 hours) blocks the expression and production of IL-33 stimulated by polyI:C or flagellin, and also greatly suppresses the stimulated IκB-α phosphorylation and degradation in HCECs[1].

?Pepinh-TRIF (40 μM, 6 hours) suppresses NF-κB activation with p65 protein nuclear translocation [1].

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

Western Blot Analysis[1]

Cell Line:	HCECs
Concentration:	40 μM

Incubation Time:	6 hours
Result:	Blocked NF-κB activation with p65 nuclear translocation.

CUSTOMER VALIDATION

- bioRxiv. 2023 Apr 25.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Amal Hasan, et al. TNF-α in Combination with Palmitate Enhances IL-8 Production via The MyD88- Independent TLR4 Signaling Pathway: Potential Relevance to Metabolic Inflammation. Int J Mol Sci. 2019 Aug 23;20(17):4112.

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