SEB Domain (152-161) (TFA)

Cat. No.: HY-P1900A

Molecular Formula: $C_{52}H_{91}F_3N_{14}O_{19}$

Molecular Weight: 1273.35

Sequence: Lys-Lys-Lys-Val-Thr-Ala-Gln-Glu-Leu-Asp

Sequence Shortening: KKKVTAQELD

KKKVTAQELD (TFA salt)

Target: Others

Pathway: Others

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 (39.27 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.7853 mL	3.9267 mL	7.8533 mL
	5 mM	0.1571 mL	0.7853 mL	1.5707 mL
	10 mM	0.0785 mL	0.3927 mL	0.7853 mL

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

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 100 mg/mL (78.53 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

SEB Domain (152-161) TFA is Staphylococcal Enterotoxin B domain amino acid residue 152-161. Staphylococcal enterotoxin B (SEB) is a toxin produced by Staphylococcus aureus. SEB Domain (152-161) TFA is highly conserved and can inhibit transcytosis of multiple staphylococcal enterotoxins, SEA, SEE, and TSST-1[1][2].

REFERENCES

[1]. Shupp JW, et al. Identification of a transcytosis epitope on staphylococcal enterotoxins. Infect Immun. 2002 Apr;70(4):2178-86.

[2]. Rödström KE, et al. Structure of the superantigen staphylococcal enterotoxin B in complex with TCR and peptide-MHC demonstrates absence of TCR-peptide contacts. J Immunol. 2014 Aug 15;193(4):1998-2004.

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