

SEB Domain (152-161) (TFA)

Cat. No.:	HY-P1900A
Molecular Formula:	C ₅₂ H ₉₁ F ₃ N ₁₄ O ₁₉
Molecular Weight:	1273.35
Sequence:	Lys-Lys-Lys-Val-Thr-Ala-Gln-Glu-Leu-Asp
Sequence Shortening:	KKKVTAQELD
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture and light, under nitrogen Powder -80°C 2 years -20°C 1 year

KKKVTAQELD (TFA salt)

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

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 50 mg/mL (39.27 mM); Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		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]} .
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CUSTOMER VALIDATION

- Kidney Blood Press Res. 2023 Mar 6.

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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.

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

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