

Syntide 2 TFA

Cat. No.:	HY-P0271A	
Molecular Formula:	$C_{70}H_{123}N_{20}F_3O_{20}$	
Molecular Weight:	1621.84	
Sequence:	Pro-Leu-Ala-Arg-Thr-Leu-Ser-Val-Ala-Gly-Leu-Pro-Gly-Lys-Lys	PLARTLSVAGLPGKK (TFA salt)
Sequence Shortening:	PLARTLSVAGLPGKK	
Target:	CaMK	
Pathway:	Neuronal Signaling	
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 ₂ O : 100 mg/mL (61.66 mM); Need ultrasonic					
		Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
	Preparing Stock Solutions	1 mM		0.6166 mL	3.0829 mL	6.1658 mL
		5 mM		0.1233 mL	0.6166 mL	1.2332 mL
		10 mM		0.0617 mL	0.3083 mL	0.6166 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 (61.66 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Syntide 2 (TFA), a Ca ²⁺ - and calmodulin (CaM)-dependent protein kinase II (CaMKII) substrate peptide, selectively inhibits the gibberellin (GA) response, leaving constitutive and abscisic acid-regulated events unaffected ^[1] .
IC₅₀ & Target	CaMK II

CUSTOMER VALIDATION

- Apoptosis. 2020 Dec;25(11-12):853-863.

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REFERENCES

[1]. Ritchie S, et al. Calcium-Dependent Protein Phosphorylation May Mediate the Gibberellic Acid Response in Barley Aleurone. Plant Physiol. 1998 Feb 1;116(2):765-76.

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

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