

Product Data Sheet

Autocamtide-2-related inhibitory peptide TFA

Cat. No.:	HY-P0214A			
Molecular Formula:	$C_{66}H_{126}N_{22}O_{21}F_{3}$			
Molecular Weight:	1611.76			
Sequence:	Lys-Lys-Ala-Lru-Arg-Arg-Gln-Glu-Ala-Val-Asp-Ala-Leu KKALRRQEAVDAL (TF			
Sequence Shortening:	KKALRRQEAVDAL			
Target:	CaMK; Autophagy			
Pathway:	Neuronal Signaling; Autophagy			
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

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	0.6204 mL	3.1022 mL	6.2044 mL
		5 mM	0.1241 mL	0.6204 mL	1.2409 mL
		10 mM	0.0620 mL	0.3102 mL	0.6204 mL
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.			

BIOLOGICAL ACTIVITY			
Description	Autocamtide-2-related inhibitory peptide (TFA) is a highly specific and potent inhibitor of CaMKII with an IC ₅₀ of 40 nM.		
IC ₅₀ & Target	IC50: 40 nM (CaMKII) ^[1] .		
In Vitro	It is found that Autocamtide-2-related inhibitory peptide (TFA) is a potent inhibitor of CaM-kinase II with an IC ₅₀ of 40 nM, which is active in the presence or absence of Ca ²⁺ /calmodulin. It is 50 and 500 times more potent than CaMK-(281-302Ala286) and KN-93, respectively, under the assay condition used ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

• Nat Commun. 2021 Jun 10;12(1):3519.

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REFERENCES

[1]. Ishida A, et al. A novel highly specific and potent inhibitor of calmodulin-dependent protein kinase II. Biochem Biophys Res Commun. 1995 Jul 26;212(3):806-12.

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

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