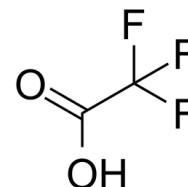


Data Sheet

Product Name:	Autocamtide-2-related inhibitory peptide (TFA)
Cat. No.:	CS-0062979
Molecular Formula:	C ₆₆ H ₁₂₆ N ₂₂ O ₂₁ F ₃
Molecular Weight:	1611.76
Target:	Autophagy; CaMK
Pathway:	Autophagy; Neuronal Signaling
Solubility:	10 mM in H ₂ O

KKALRRQEAVDAL



BIOLOGICAL ACTIVITY:

Autocamtide-2-related inhibitory peptide (TFA) is a highly specific and potent inhibitor of **CaMKII** with an **IC₅₀** of 40 nM. **IC₅₀** & 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 **IC₅₀** of 40 nM, which is active in the presence or absence of Ca²⁺/calmodulin. It is 50 and 500 times more potent than CaMK-(281-302Ala286) and KN-93, respectively, under the assay condition used^[1].

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.

CAIndexNames:

Autocamtide-2-related inhibitory peptide (TFA)

SMILES:

FC(C(O)=O)(F)F.[KKALRRQEAVDAL]

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

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA