

Product Name	: CaM kinase II inhibitor TFA salt
Synonyms	: Autocamtide-2-related inhibitory peptide (TFA)
Cat No.	: M22306
CAS Number	: □
Molecular Formula	: C66H126N22O21F3
Formula Weight	: 1611.76
Chemical Name	: —
Description	: Autocamtide-2-Related Inhibitory Peptide is a highly specific and potent inhibitor of CaMKII with an IC50 of 40 nM. 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.
Pathway	: Endocrinology/Hormones
Target	: CaMK
Receptor	: CaMKII
Solubility	: —
SMILES	: <chem>C[C@@H](NC(=O)[C@@H](NC(=O)[C@@H](N)CCCCN)CCCCN)C(=O)N[C@@H](CC(C)C)C(=O)N[C@@H](CCCNC(=N)N)C(=O)N[C@@H](CCCNC(=N)N)C(=O)N[C@@H](CCC(N)=O)C(=O)N[C@@H](CCC(=O)O)C(=O)N[C@@H](C)C(=O)N[C@@H](C(C)C)C(=O)N[C@@H](CC(=O)O)C(=O)N[C@@H](C)C(=O)N[C@@H](CC(C)C)C(=O)O.Fc(F)(F)C(=O)O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

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.