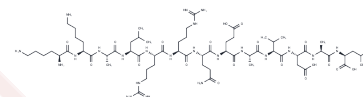


## Autocamtide-2-related inhibitory peptide

## Chemical Properties

CAS No. :	167114-91-2
Formula:	C64H116N22O19
Molecular Weight:	1497.74
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Autocamtide-2-related inhibitory peptide is a potent and highly specific inhibitor of CaMKII, with an IC50 of 40 nM.
Targets(IC50)	CaMK, Autophagy
In vitro	Autocamtide-2-related inhibitory peptide (a novel synthetic peptide ATP) is a potent inhibitor of CaM-kinase II with an IC50 of 40 nM, which is active in the presence or absence of Ca <sup>2+</sup> /calmodulin. It is 50 and 500 times more potent than CaMK-(281-302Ala286) and KN-93, respectively, under the assay condition used[1].

## Solubility Information

Solubility	DMSO: 10 mM, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6677 mL	3.3384 mL	6.6767 mL
5 mM	0.1335 mL	0.6677 mL	1.3353 mL
10 mM	0.0668 mL	0.3338 mL	0.6677 mL
50 mM	0.0134 mL	0.0668 mL	0.1335 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Ishida A, Kameshita I, Okuno S, Kitani T, Fujisawa H. A novel highly specific and potent inhibitor of calmodulin-dependent protein kinase II. *Biochem Biophys Res Commun.* 1995;212(3):806-812. doi:10.1006/bbrc.1995.2040

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481