

## Decanoyl-RVCR-CMK TFA

## Chemical Properties

CAS No. :	2098497-25-5
Formula:	C <sub>36</sub> H <sub>67</sub> ClF <sub>3</sub> N <sub>11</sub> O <sub>7</sub>
Molecular Weight:	858.44
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	Decanoyl-RVCR-CMK TFA effectively inhibits the processing of overexpressed gp160 and suppresses HIV-1 replication. Decanoyl-RVCR-CMK is valuable for virological and molecular biology research involving viral protein maturation, host protease inhibition, and retroviral replication mechanisms.
Targets(IC50)	HIV Protease
In vitro	Decanoyl-RVCR-CMK TFA effectively inhibits HIV-2 ROD replication by impeding the processing of envelope glycoprotein precursors in Jurkat lymphocyte cells[1] and obstructs the regulated secretion of VGF[2]. In a cell viability assay with HeLaCD4 cells infected with recombinant vaccinia viruses at 5 PFU/mL MOI, 35 µM concentration reduced ex vivo HIV-1 and HIV-2 replication rates by 70-80% over 7 days.

## Solubility Information

Solubility	DMSO: 80 mg/mL (93.19 mM),Sonication is recommended. H <sub>2</sub> O: 3.2 mg/mL (3.73 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

### Preparing Stock Solutions

---

	1mg	5mg	10mg
1 mM	1.1649 mL	5.8245 mL	11.649 mL
5 mM	0.233 mL	1.1649 mL	2.3298 mL
10 mM	0.1165 mL	0.5825 mL	1.1649 mL
50 mM	0.0233 mL	0.1165 mL	0.233 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

B Bahbouhi, et al. Inhibition of HIV-2(ROD) replication in a lymphoblastoid cell line by the alpha1-antitrypsin Portland variant (alpha1-PDX) and the decRVKRcmk peptide: comparison with HIV-1(LAI). *Microbes Infect.* 2001 Nov;3(13):1073-84.

Angelo L Garcia, et al. A prohormone convertase cleavage site within a predicted alpha-helix mediates sorting of the neuronal and endocrine polypeptide VGF into the regulated secretory pathway. *J Biol Chem.* 2005 Dec 16;280(50):41595-608.

**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