

Product Data Sheet

Product Name: DEC-RVRK-CMK TFA

Cat. No.: GC74389

Chemical Properties

Cas. No.

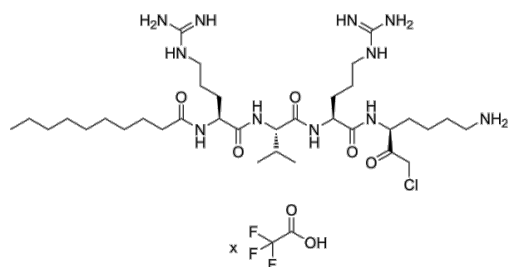
Formula $C_{34}H_{66}ClN_{11}O_5 \cdot xC_2HF_3O_2$ M.Wt 744.41 (free base)

Solubility H_2O : 5 mg/mL (Need ultrasonic) Storage Sealed storage, away from moisture

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

DEC-RVRK-CMK (Decanoyl-Arg-Val-Arg-Lys-chloromethylketone) TFA is a peptide-based CMK (chloromethylketone) inhibitor that targets and inactivates the secreted soluble kexin (Kex2) ($K_i=8.45$

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

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μM). The yeast enzyme Kex2 (kexin, EC 3.4.21.61) is a calcium-dependent transmembrane protease and belongs to the mammalian protease family of the serine protease subtilisin family. The binding mechanism of Kex2 with different CMK inhibitors depends on substrate selectivity, particularly the selective differences between lysine and arginine at the P1 position.

References:

[1]. Wheatley JL, et al. Differential P1 arginine and lysine recognition in the prototypical proprotein convertase Kex2. Proc Natl Acad Sci U S A. 2007 Apr 17;104(16):6626-31.

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