Product Data Sheet

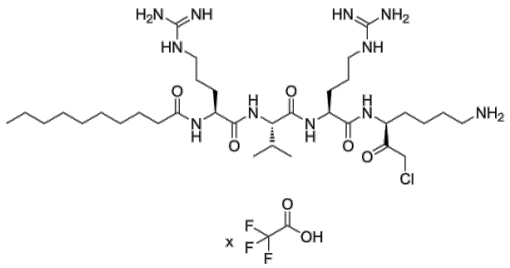
Product Name: DEC-RVRK-CMK TFA
Cat. No.: GC74389

Chemical Properties

Cas. No.

Formula	$C_{34}H_{66}ClN_{11}O_5.xC_2HF_3O_2$	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-chlorometlketone) TFA is a peptide-based CMK (chlorometlketone) inhibitor that targets and inactivates the secreted soluble kexin (Kex2) (Ki=8.45

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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.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA