AC-VEID-CHO TFA

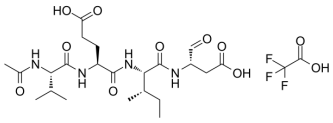
Cat. No.: HY-108312A

Molecular Formula: $C_{24}H_{37}F_3N_4O_{11}$

Molecular Weight: 614.57

Target: Caspase

Pathway: Apoptosis



Storage: Sealed storage, away from moisture

Powder -80°C 2 years

-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

H_2O : 1 mg/mL (1.63 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.6272 mL	8.1358 mL	16.2715 mL
	5 mM	---	---	---
	10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

AC-VEID-CHO (TFA) is a peptide-derived caspase inhibitor and has potency of inhibition for Caspase-6, Caspase-3 and Caspase-7 with IC_{50} values of 16.2 nM, 13.6 nM and 162.1 nM, respectively. AC-VEID-CHO (TFA) can be used for the research of neurodegenerative conditions including Alzheimer's and Huntington's disease[1].

IC_{50} & Target

Caspase 3	Caspase-6	Caspase-7
13.6 nM (IC_{50})	16.2 nM (IC_{50})	162.1 nM (IC_{50})

In Vitro

AC-VEID-CHO (TFA) has potency of inhibition for Caspase-6, Caspase-3 and Caspase-7 with IC_{50} values of 16.2 nM, 13.6 nM and 162.1 nM, respectively[1].

Ac-VEID-CHO is predominantly excluded from accessing the intracellular environment (0.16% cellular accumulation) and lacks any activity with an IC_{50} value of ⊠100 μM in the cellular assay[1].

AC-VEID-CHO (TFA) (also inactive in lamin degradation assay) is clearly able to inhibit VEIDase activity with an IC_{50} value of 0.49 μM when the membrane barrier is removed[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Robert Mintzer, et al. A whole cell assay to measure caspase-6 activity by detecting cleavage of lamin A/C. PLoS One. 2012;7(1):e30376.

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