

AK-295

Chemical Properties

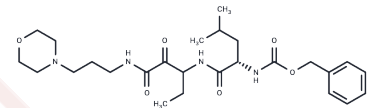
CAS No. : 160399-35-9

Formula: C₂₆H₄₀N₄O₆

Molecular Weight: 504.62

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	AK 295, also known as CX 295, is a dipeptide inhibitor of alpha-ketoamide calpain.
Targets(IC50)	Apoptosis,Others,Proteasome

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9817 mL	9.9084 mL	19.8169 mL
5 mM	0.3963 mL	1.9817 mL	3.9634 mL
10 mM	0.1982 mL	0.9908 mL	1.9817 mL
50 mM	0.0396 mL	0.1982 mL	0.3963 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

- Colak A, Kaya M, Karaođlan A, Sađmanligil A, Akdemir O, Sahan E, Celik O. Calpain inhibitor AK 295 inhibits calpain-induced apoptosis and improves neurologic function after traumatic spinal cord injury in rats. *Neurocirugia (Astur)*. 2009 Jun;20(3):245-54. PubMed PMID: 19575128.
- Wang MS, Davis AA, Culver DG, Wang Q, Powers JC, Glass JD. Calpain inhibition protects against Taxol-induced sensory neuropathy. *Brain*. 2004 Mar;127(Pt 3):671-9. Epub 2004 Feb 4. PubMed PMID: 14761904.
- Caba E, Brown QB, Kawasaki B, Bahr BA. Peptidyl alpha-keto amide inhibitor of calpain blocks excitotoxic damage without affecting signal transduction events. *J Neurosci Res*. 2002 Mar 15;67(6):787-94. PubMed PMID: 11891793.
- Blomgren K, Zhu C, Wang X, Karlsson JO, Leverin AL, Bahr BA, Mallard C, Hagberg H. Synergistic activation of caspase-3 by m-calpain after neonatal hypoxia-ischemia: a mechanism of "pathological apoptosis"? *J Biol Chem*. 2001 Mar 30;276(13):10191-8. Epub 2000 Dec 21. PubMed PMID: 11124942.

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