

AK 275

Chemical Properties

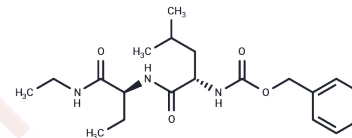
CAS No. : 158798-83-5

Formula: C₂₀H₃₁N₃O₄

Molecular Weight: 377.48

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 275 is a calpain inhibitor that prevents degradation of cytoskeletal and myelin proteins in spinal cord in vitro.
Targets(IC50)	Others, Proteasome

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6491 mL	13.2457 mL	26.4915 mL
5 mM	0.5298 mL	2.6491 mL	5.2983 mL
10 mM	0.2649 mL	1.3246 mL	2.6491 mL
50 mM	0.053 mL	0.2649 mL	0.5298 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

- James T, Matzelle D, Bartus R, Hogan EL, Banik NL. New inhibitors of calpain prevent degradation of cytoskeletal and myelin proteins in spinal cord in vitro. *J Neurosci Res.* 1998 Jan 15;51(2):218-22. PubMed PMID: 9469575.
- Zalewska T. Calpain as proposed target for neuroprotective treatment of brain ischemia. *Folia Neuropathol.* 1996; 34(3):121-7. Review. PubMed PMID: 8946783.
- Bartus RT, Baker KL, Heiser AD, Sawyer SD, Dean RL, Elliott PJ, Straub JA. Postischemic administration of AK275, a calpain inhibitor, provides substantial protection against focal ischemic brain damage. *J Cereb Blood Flow Metab.* 1994 Jul;14(4):537-44. PubMed PMID: 8014200.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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