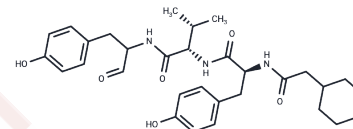


Tyropeptin A-4

Chemical Properties

CAS No. :	688737-89-5
Formula:	C ₃₁ H ₄₁ N ₃ O ₆
Molecular Weight:	551.67
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	Tyropeptin A-4 is used as a proteasome inhibitor.
Targets(IC50)	Others, Proteasome

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8127 mL	9.0634 mL	18.1268 mL
5 mM	0.3625 mL	1.8127 mL	3.6254 mL
10 mM	0.1813 mL	0.9063 mL	1.8127 mL
50 mM	0.0363 mL	0.1813 mL	0.3625 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

- Momose I, Abe H, Watanabe T, Ohba S, Yamazaki K, Dan S, Yamori T, Masuda T, Nomoto A. Antitumor effects of tyropeptin-boronic acid derivatives: New proteasome inhibitors. *Cancer Sci.* 2014 Dec;105(12):1609-15. doi: 10.1111/cas.12542. Epub 2014 Oct 21. PubMed PMID: 25251038; PubMed Central PMCID: PMC4317970.
- Watanabe T, Abe H, Momose I, Takahashi Y, Ikeda D, Akamatsu Y. Structure-activity relationship of boronic acid derivatives of tyropeptin: proteasome inhibitors. *Bioorg Med Chem Lett.* 2010 Oct 1;20(19):5839-42. doi: 10.1016/j.bmcl.2010.07.122. Epub 2010 Aug 1. PubMed PMID: 20727746.
- Steverding D, Pemberton AJ, Royle H, Spackman RW, Rivett AJ. Evaluation of the anti-trypanosomal activity of tyropeptin A. *Planta Med.* 2006 Jun;72(8):761-3. Epub 2006 May 29. PubMed PMID: 16732530.
- Momose I, Umezawa Y, Hirose S, Iinuma H, Ikeda D. Structure-based design of derivatives of tyropeptin A as the potent and selective inhibitors of mammalian 20S proteasome. *Bioorg Med Chem Lett.* 2005 Apr 1;15(7):1867-71. PubMed PMID: 15780623.

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