

LB30870

Chemical Properties

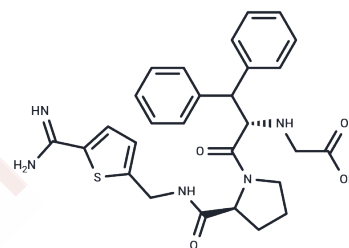
CAS No. : 1583240-63-4

Formula: C₂₈H₃₁N₅O₄S

Molecular Weight: 533.64

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	LB30870 is an orally active and selective inhibitor of thrombin.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8739 mL	9.3696 mL	18.7392 mL
5 mM	0.3748 mL	1.8739 mL	3.7478 mL
10 mM	0.1874 mL	0.937 mL	1.8739 mL
50 mM	0.0375 mL	0.1874 mL	0.3748 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

- Lee J, Kim B, Kim TH, Lee SH, Park HD, Chung K, Lee SH, Paek S, Kim EE, Yoon S, Kim A. A Food Effect Study of an Oral Thrombin Inhibitor and Prodrug Approach To Mitigate It. *Mol Pharm*. 2016 Apr 4;13(4):1197-205. doi: 10.1021/acs.molpharmaceut.5b00637. Epub 2016 Mar 1. PubMed PMID: 26886576.
- Kim J, Lee SH, Boyce M, Warrington S, Cho KH, Yoon SK, Park HD, Kim A. Pharmacokinetics, pharmacodynamics and food effect of LB30870, a novel direct thrombin inhibitor, after single oral doses in healthy men. *Xenobiotica*. 2015; 45(8):663-71. doi: 10.3109/00498254.2015.1010110. Epub 2015 Feb 12. PubMed PMID: 25673087.
- Park HD, Lee SH, Kim TH, Lee SH, Cho KH, Kim A. Antithrombotic effects of LB30870, a potent, orally active, selective and direct thrombin inhibitor, and pharmacokinetics of its prodrug. *Bioorg Med Chem Lett*. 2013 Sep 1;23(17):4779-84. doi: 10.1016/j.bmcl.2013.07.008. Epub 2013 Jul 13. PubMed PMID: 23899618.
- Lee K, Park CW, Jung WH, Park HD, Lee SH, Chung KH, Park SK, Kwon OH, Kang M, Park DH, Lee SK, Kim EE, Yoon SK, Kim A. Efficacious and orally bioavailable thrombin inhibitors based on a 2,5-thienylamidine at the P1 position: discovery of N-carboxymethyl-d-diphenylalanyl-l-prolyl[(5-amidino-2-thienyl)methyl]amide. *J Med Chem*. 2003 Aug 14;46(17):3612-22. PubMed PMID: 12904065.

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