

LK-614

Chemical Properties

CAS No. : 82461-57-2

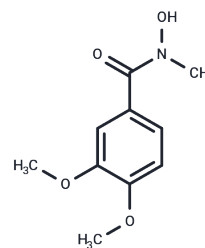
Formula: C₁₀H₁₃NO₄

Molecular Weight: 211.21

Store at low temperature

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	LK-614 is a membrane-permeable iron chelator that reduces cold-induced damage and can be used in the study of cardiovascular disease.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.7346 mL	23.6731 mL	47.3462 mL
5 mM	0.9469 mL	4.7346 mL	9.4692 mL
10 mM	0.4735 mL	2.3673 mL	4.7346 mL
50 mM	0.0947 mL	0.4735 mL	0.9469 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

Rauen U, et al. Histidine-induced injury to cultured liver cells, effects of histidine derivatives and of iron chelators. *Cell Mol Life Sci.* 2007 Jan;64(2):192-205.

Wu S, Wohlschlaeger J, de Groot H, Rauen U. Evaluation of a modified HTK solution containing the new iron chelator LK 614 in an isolated rat liver perfusion model. *J Invest Surg.* 2009 Sep-Oct;22(5):340-7. PubMed PMID: 19842888.

Veres G, Radovits T, Merkely B, Karck M, Szabó G. Custodiol-N, the novel cardioplegic solution reduces ischemia/reperfusion injury after cardiopulmonary bypass. *J Cardiothorac Surg.* 2015 Feb 28;10:27. doi: 10.1186/s13019-015-0226-9. PubMed PMID: 25890005; PubMed Central PMCID: PMC4350983.

Stegemann J, Hirner A, Rauen U, Minor T. Use of a new modified HTK solution for machine preservation of marginal liver grafts. *J Surg Res.* 2010 May 1;160(1):155-62. doi: 10.1016/j.jss.2008.10.021. Epub 2008 Dec 25. PubMed PMID: 19541327.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481