Data Sheet (Cat.No.T39054)

TargetMol

Furosine dihydrochloride

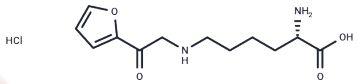
Chemical Properties

CAS No. : 157974-36-2

Formula: C12H19ClN2O4

Molecular Weight: 290.74

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	Furosine dihydrochloride, an amino acid derivative, is a significant biochemical indicator of initial Maillard reactions and is strongly associated with various diseases, including diabetes.
Targets(IC50)	Others,Amino Acids and Derivatives
In vitro	Furosine gradually degrades into various advanced glycation end products (AGEs), some of which are proven to be significantly associated with multiple diseases, including diabetes. A high concentration of AGEs in the human body is deemed detrimental[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4395 mL	17.1975 mL	34.395 mL
5 mM	0.6879 mL	3.4395 mL	6.879 mL
10 mM	0.3439 mL	1.7197 mL	3.4395 mL
50 mM	0.0688 mL	0.3439 mL	0.6879 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

Li Y, et, al. Qualitative and quantitative analysis of furosine in fresh and processed ginsengs. J Ginseng Res. 2018 Jan;42(1):21-26.

Poojary MM, et, al. Liquid chromatography quadrupole-Orbitrap mass spectrometry for the simultaneous analysis of advanced glycation end products and protein-derived cross-links in food and biological matrices. J Chromatogr A. 2020 Mar 29;1615:460767.

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