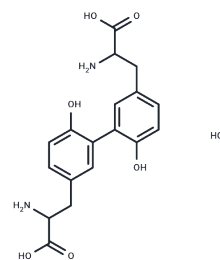


Dityrosine hydrochloride

Chemical Properties

CAS No. :	2716849-01-1
Formula:	C ₁₈ H ₂₀ N ₂ O ₆ ·2HCl
Molecular Weight:	433.28
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	Dityrosine, an oxidation product of protein formed through the intermolecular cross-linking of tyrosyl radicals from the reactive oxygen species (ROS) and tyrosine interaction, is associated with decreased hippocampal expression of NMDA receptor subunits Nr1, Nr2a, and Nr2b when administered intragastrically at 320 µg/kg per day, leading to memory impairments in mice as evidenced by their performance in a novel object recognition test. Additionally, it raises fasting blood glucose levels while reducing plasma insulin levels and the pancreatic expression of insulin synthesis-related genes Ins2, Pdx1, and MafA. Increased dityrosine levels have been positively linked to a range of diseases, including autism spectrum disorder, cataracts, Alzheimer's disease, Parkinson's disease, atherosclerosis, and cystic fibrosis.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.308 mL	11.5399 mL	23.0798 mL
5 mM	0.4616 mL	2.308 mL	4.616 mL
10 mM	0.2308 mL	1.154 mL	2.308 mL
50 mM	0.0462 mL	0.2308 mL	0.4616 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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