

ML 083

Chemical Properties

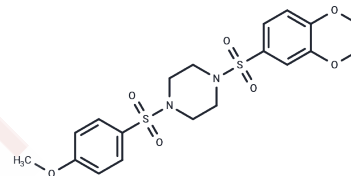
CAS No. : 562867-96-3

Formula: C19H22N2O7S2

Molecular Weight: 454.52

Storage: Keep away from moisture, Store at low temperature
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	ML 083 is a highly specific allosteric activator of the tumor-associated M2 isoform of human pyruvate kinase that modulates phosphoenolpyruvate binding cooperativity, and it is used as a metabolic research tool to investigate tumor-specific glycolytic regulation and cancer-associated metabolic reprogramming.
Targets(IC50)	PKM
In vitro	Method: Allosteric activators of human pyruvate kinase M2 were characterized using biochemical assays assessing PEP and ADP binding. Result: ML 083 and ML082 selectively activated PK-M2 by enhancing PEP binding cooperativity with minimal effects on ADP binding[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2001 mL	11.0006 mL	22.0012 mL
5 mM	0.440 mL	2.2001 mL	4.4002 mL
10 mM	0.220 mL	1.1001 mL	2.2001 mL
50 mM	0.044 mL	0.220 mL	0.440 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

Auld D, Shen M, Skoumbourdis AP, Jiang J kang, Boxer M, Southall N, et al. Identification of activators for the M2 isoform of human pyruvate kinase. In: Probe Reports from the NIH Molecular Libraries Program Internet. Bethesda (MD): National Center for Biotechnology Information (US); 2010 cited 2025 Dec 31. Available from: <http://www.ncbi.nlm.nih.gov/books/NBK47338/>

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