

Leucettinib-92

Chemical Properties

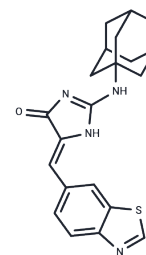
CAS No. : 2732859-57-1

Formula: C₂₁H₂₂N₄O₅

Molecular Weight: 378.49

Appearance:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Leucettinib-92 (compound 92) is a kinase inhibitor selective for the DYRK/CLK families, with IC ₅₀ values of 147 nM for CLK1, 39 nM for CLK2, 5.2 nM for CLK4, 0.8 µM for CLK3, 124 nM for DYRK1A, 204 nM for DYRK1B, 0.16 µM for DYRK2, 1.0 µM for DYRK3, 0.52 µM for DYRK4, and 2.78 µM for GSK3 [1].
Targets(IC ₅₀)	CDK
In vitro	Leucettinib-92 (0.1-10 µM; 3 min) binds to DYRK1A in SH-SY5Y cells, stabilizing the enzyme to withstand melting temperatures above 52°C, and at 1 µM, it inhibits the phosphorylation of DYRK1A substrates Thr212-Tau and Thr286-cyclin D1 [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6421 mL	13.2104 mL	26.4208 mL
5 mM	0.5284 mL	2.6421 mL	5.2842 mL
10 mM	0.2642 mL	1.321 mL	2.6421 mL
50 mM	0.0528 mL	0.2642 mL	0.5284 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

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