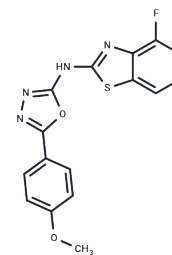


MLS-0437605

Chemical Properties

CAS No. : 862975-18-6
 Formula: C₁₆H₁₁FN₄O₂S
 Molecular Weight: 342.35
 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	MLS-0437605 is a potent and selective inhibitor of dual-specificity phosphatase 3 (DUSP3), with an IC ₅₀ of 3.7 μM. It exhibits higher selectivity towards DUSP3 in comparison to DUSP22 and other protein tyrosine phosphatases (PTPs).
Targets(IC ₅₀)	Others,Phosphatase
In vitro	MLS-0437605 effectively suppresses platelet aggregation induced by collagen-related peptide (CRP) and rhodocytin, without affecting the response to thromboxane. It also reduces the phosphorylation of tyrosine (pY) in approximately a 70-kDa protein following stimulation with CRP or rhodocytin. Additionally, MLS-0437605 diminishes the tyrosine phosphorylation of Syk and PLCγ2 proteins that have been immunoprecipitated [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.921 mL	14.6049 mL	29.2099 mL
5 mM	0.5842 mL	2.921 mL	5.842 mL
10 mM	0.2921 mL	1.4605 mL	2.921 mL
50 mM	0.0584 mL	0.2921 mL	0.5842 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

Lucia Musumeci, et al. Dual-specificity phosphatase 3 deficiency or inhibition limits platelet activation and arterial thrombosis. *Circulation*. 2015 Feb 17;131(7):656-68.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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