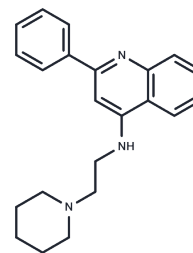


MLS-0322825

## Chemical Properties

CAS No. : 853310-63-1  
 Formula: C<sub>22</sub>H<sub>25</sub>N<sub>3</sub>  
 Molecular Weight: 331.46  
 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-0322825 is a highly selective, orally active, low-molecular-weight protein tyrosine phosphatase (LMPTP/LMW-PTP) non-competitive inhibitor that exhibits potent inhibitory activity against the LMPTP-A subtype (IC <sub>50</sub> = 3.3 μM) and weaker inhibitory activity against the LMPTP-B subtype (IC <sub>50</sub> ≈ 40 μM). MLS-0322825 effectively increases IR phosphorylation levels in the liver and reduces blood glucose and insulin levels in obese mice. MLS-0322825 exhibits potential antitumor activity and can be used in tumor research.
Targets(IC50)	Phosphatase

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.017 mL	15.0848 mL	30.1696 mL
5 mM	0.6034 mL	3.017 mL	6.0339 mL
10 mM	0.3017 mL	1.5085 mL	3.017 mL
50 mM	0.0603 mL	0.3017 mL	0.6034 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

Stanford SM, Aleshin AE, Zhang V, et al. Diabetes reversal by inhibition of the low-molecular-weight tyrosine phosphatase. Nat Chem Biol. 2017;13(6):624-632.

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