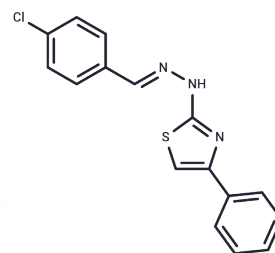


Tyrosinase-IN-12

Chemical Properties

CAS No. :	1860779-42-5
Formula:	C ₁₆ H ₁₂ ClN ₃ S
Molecular Weight:	313.8
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	Tyrosinase-IN-12(Non-competitive tyrosinase inhibitor) is a potent non-competitive tyrosinase inhibitor with an IC ₅₀ of 49.33 ± 2.64 μM and a K _i of 31.25 ± 0.25 μM. Tyrosinase-IN-12 has significant antioxidant and free radical scavenging activity (IC ₅₀ : 25.39 ± 0.77 μM), reducing reactive oxygen species (ROS) production. Tyrosinase inhibitor (Tyrosinase-IN-12) has significant antioxidant and free radical scavenging activity and reduces the production of reactive oxygen species (ROS) (IC ₅₀ :25.39 ± 0.77 μM).Tyrosinase-IN-12 can be used for the study of browning of substances in food and fruits.
Targets(IC ₅₀)	Reactive Oxygen Species,ROS,Tyrosinase
In vitro	Tyrosinase-IN-12 is a non-competitive tyrosinase inhibitor and a potential anti-browning agent for fresh fruits and vegetables (3 days) [1].

Solubility Information

Solubility	DMSO: 55 mg/mL (175.27 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1867 mL	15.9337 mL	31.8674 mL
5 mM	0.6373 mL	3.1867 mL	6.3735 mL
10 mM	0.3187 mL	1.5934 mL	3.1867 mL
50 mM	0.0637 mL	0.3187 mL	0.6373 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

Djafarou S, et al. Synthesis and evaluation of the antioxidant and anti-tyrosinase activities of thiazolyl hydrazone derivatives and their application in the anti-browning of fresh-cut potato. Food Chem.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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