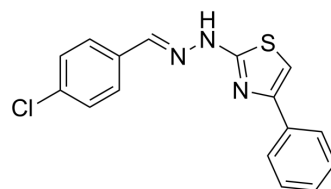


Tyrosinase-IN-12

Cat. No.:	HY-149404
CAS No.:	1860779-42-5
Molecular Formula:	C ₁₆ H ₁₂ ClN ₃ S
Molecular Weight:	313.8
Target:	Reactive Oxygen Species; Tyrosinase
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (159.34 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Non-competitive tyrosinase inhibitor (Tyrosinase-IN-12) is a potent, non-competitive tyrosinase inhibitor with an IC₅₀ value of 49.33 ± 2.64 μM and K_i value of 31.25 ± 0.25 μM. Non-competitive tyrosinase inhibitor (Tyrosinase-IN-12) have the highest radical scavenging activity to reduce the production of reactive oxygen species (ROS) with an IC₅₀ value of 25.39 ± 0.77 μM. Non-competitive tyrosinase inhibitor (Tyrosinase-IN-12) can be used for anti-browning substances in the food and agricultural sectors^[1].

In Vitro

Non-competitive tyrosinase inhibitor (Tyrosinase-IN-12) (3day) is a potential anti-browning agent for fresh-cut fruits and vegetables^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay ^[1]

Cell Line: fresh-cut potato slices

Concentration:

Incubation Time: 3 day

Result:	Exhibited browning inhibition effects close to those of kojic acid on fresh-cut potato slices.
---------	--

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA