

Product Data Sheet

Product Name: Tyrosinase-IN-50

Cat. No.: GC81438

Chemical Properties

Cas. No. 3081328-14-2

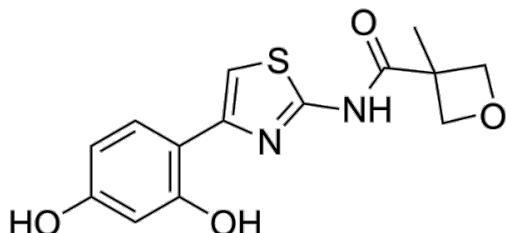
Formula $C_{14}H_{14}N_2O_4S$ M.Wt 306.34

Solubility DMSO: 100 mg/mL (326.43 mM; Need ultrasonic) Storage Store at 4°C, stored under nitrogen, away from moisture

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Tyrosinase-IN-50 (Compound 14) is a Tyrosinase inhibitor (IC_{50} is 0.06 μ M or 0.16 μ M). Tyrosinase-IN-50 inhibits melanogenesis in multiple cell types. Tyrosinase-IN-50 can be used for the research of hyperpigmentation-related diseases and inflammatory diseases [1].

In Vitro, Tyrosinase-IN-50 (5 min) exhibits an IC_{50} of 0.06 μ M against tyrosinase in MNT-1 melanoma cells and an IC_{50} of 0.16 μ M against tyrosinase in B16-F10 mouse skin melanoma

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

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cells^[1]. Tyrosinase-IN-50 (1-10 μ M; 6 days) inhibits melanogenesis in MNT-1 human melanoma cells in a concentration-dependent manner, with the melanin content at 10 μ M being only 9.57% of that in the untreated group^[1]. Tyrosinase-IN-50 (3.2-10000 μ M) exhibits concentration-dependent DPPH radical scavenging activity, with the maximum scavenging rate reaching up to 49.45% at 10000 μ M^[1]. Tyrosinase-IN-50 (10 μ M; 48 h) enhances the activity of the ARE/NRF2 reporter gene in HEK293T cells^[1]. Tyrosinase-IN-50 (3-30 μ M; 2 h) exerts a dose-dependent anti-inflammatory effect in LPS-induced RAW264.7 mouse macrophages^[1].

References:

[1]. Tong, et al. Tyrosinase inhibitor and use thereof. WO2025228352A1. WIPO (PCT). 2025-04-29.

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