

Product Data Sheet

Product Name: MIND4-17

Cat. No.: GC70520

Chemical Properties

Cas. No. 345989-24-4

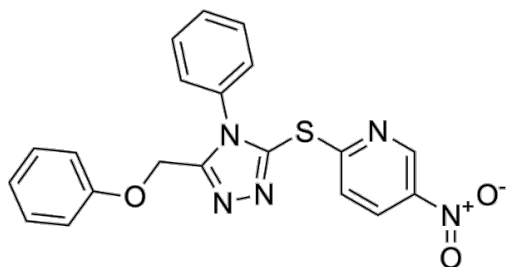
Formula $C_{20}H_{15}N_5O_3S$ M.Wt 405.43

Solubility DMSO : 100 mg/mL (246.65 mM); Storage -20°C
Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

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

MIND4-17 is a potent NRF2 activator that covalently modifies a C151 residue of Keap1. MIND4-17 disrupts Keap1-Nrf2 association, leading to Nrf2 protein stabilization and nuclear translocation. MIND4-17 exerts potent antioxidant activity.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

MIND4-17 (0.1-2 μ M; 24 hr) significantly and concentration-dependently increases the expression of the canonical ARE genes Nqo1, Hmox1, Srx1, and to a lesser degree Gclc^[1].

MIND4-17 (0.1-2 μ M; 24 hr) shows a concentration-dependent induction of NQO1 and GCLM proteins in both WT and HD mutant ST14A cells^[1].

MIN4-17 (0.1-10 μ M) reduces ROS levels and nitrogen intermediates production in microglia^[1].

MIND4-17 (2 mg/kg; intravitreal injection; once) activates Nrf2 signaling and attenuates retinal dysfunction by light damage in mice^[2].

References:

[1]. Luisa Quinti, et al. SIRT2- and NRF2-Targeting Thiazole-Containing Compound with Therapeutic Activity in Huntington's Disease Models. Cell Chem Biol. 2016 Jul 21;23(7):849-861.

[2]. Nan Chen, et al. The Nrf2 activator MIND4-17 protects retinal ganglion cells from high glucose-induced oxidative injury. J Cell Physiol. 2020 Oct;235(10):7204-7213.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA