

Product Data Sheet

Product Name: T0467
Cat. No.: GC63669

Chemical Properties

Cas. No. 859518-94-8

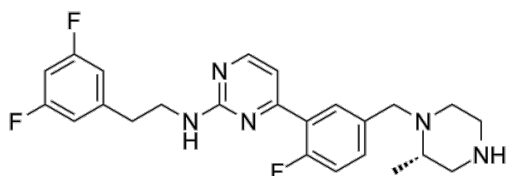
Formula $C_{24}H_{26}F_3N_5$ M.Wt 441.49

Solubility DMSO : 33.33 mg/mL (75.49 mM; Need ultrasonic) Storage Store at -20°C

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

T0467 activates parkin mitochondrial translocation in a PINK1-dependent manner in vitro. T0467 do

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

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not induce mitochondrial accumulation of PINK1 in dopaminergic neurons. T0467 is a potential compound for PINK1-Parkin signaling activation, and can be used for parkinson's disease and related disorders research[1].

T0467 (2.5-20 μ M; 3 hours) stimulates the mitochondrial translocation of GFP-Parkin over 12 μ M in HeLa/GFP-Parkin cells[1]. When HeLa/GFP-Parkin cells are treated with 20 μ M T0467 for 3 h, GFP-Parkin is translocated to the mitochondria in approximately 21% of cells[1]. T0467 does not show obvious toxicity in Drosophila at concentrations Drosophila larval muscles[1].

[1]. Kahori Shiba-Fukushima, et al. A Cell-Based High-Throughput Screening Identified Two Compounds that Enhance PINK1-Parkin Signaling. iScience. 2020 May 22;23(5):101048.

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