

Product Data Sheet

Product Name: YTX-465

Cat. No.: GC64869

Chemical Properties

Cas. No. 2225824-53-1

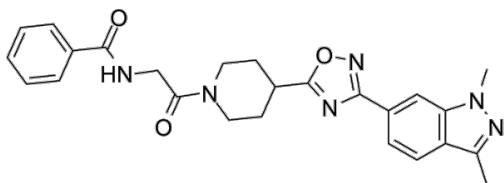
Formula C₂₅H₂₆N₆O₃ M.Wt 458.51

Solubility DMSO : 100 mg/mL (218.10 mM; Storage 4°C, protect from light
Need ultrasonic)

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

YTX-465 is a stearyl-CoA desaturase (Ole1/SCD) inhibitor. YTX-465 inhibits Ole1 and SCD1 with

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

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IC50s of 0.039 μ M and 30.4 μ M, respectively. YTX-465 can be used in the research of Parkinson's disease and other synucleinopathies[1].

YTX-465 (1-10000 nM) has an EC50 value of 0.013 μ M for α -synuclein (α -syn) toxicity rescue[1]. YTX-465 (0.05 μ M; 0-2 days) rescue the growth of α -Syn-expressing yeast[1]. YTX-465 (0, 10, 40, 160, 640, 2500 nM; 4h) increases the level of Ole1 protein in wild-type yeast expressing OLE1 in a concentration-dependent manner, that indicate YTX-465 induce a negative feedback loop[1]. YTX-465 (0, 0.03, 0.09, 0.27, 0.81 μ M; 6 hours) reduces fatty desaturation in a concentration-dependent manner in wild-type yeast, with a 50% reduction in desaturation at 0.03 μ M[1]. YTX-465 (0.25 μ M; 8 hours) decreases the desaturation index (DI) for all major classes of membrane phospholipids in wild-type yeast[1].

[1]. Vincent BM, et al. Inhibiting Stearoyl-CoA Desaturase Ameliorates α -Synuclein Cytotoxicity. Cell Rep. 2018 Dec 4;25(10):2742-2754.e31.

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