

Product Data Sheet

Product Name: Progranulin modulator-3

Cat. No.: GC73964

Chemical Properties

Cas. No. 371116-39-1

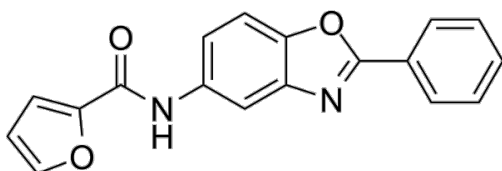
Formula $C_{18}H_{12}N_2O_3$ M.Wt 304.3

Solubility DMSO : 100 mg/mL (328.62 mM; ultrasonic and warming and heat to 60°C) Storage 4°C, protect from light

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

Progranulin modulator-3 (compd C40) is a brain-penetrant and orally active progranulin (PGRN) inducer. Progranulin modulator-3 can be used for neurological research.

Progranulin modulator-3 (1-30 μ M, 48 h) induces PGRN protein production does-dependently in N2A cells[1].

Progranulin modulator-3 (10 mg/kg, i.p., 24h) shows a half life of 41 min and Cmaxs of 1498 ng/mL

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

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and 6246 ng/g in mice plasma and brain, respectively, and increases PGRN protein levels in Grn+/- mouse brains[1].

References:

[1]. Tesla R, et al. Benzoxazole-derivatives enhance progranulin expression and reverse the aberrant lysosomal proteome caused by GRN haploinsufficiency. Nat Commun. 2024 Jul 20;15(1):6125.

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