

Product Data Sheet

Product Name: NEK7 degrader-3

Cat. No.: GC80890

Chemical Properties

Cas. No. 3119435-52-5

Formula $C_{16}H_{13}Cl_2N_3O_4$

M.Wt 382.2

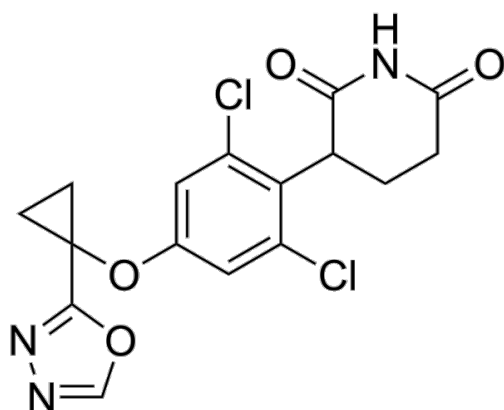
Solubility

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

NEK7 degrader-3 is an orally active and brain-penetrant NEK7 molecular glue degrader with a DC_{50} of 33.1 nM. NEK7 degrader-3 mediates interaction between NEK7 and E3 ligase cereblon, promoting proteasomal degradation of NEK7 and attenuating NLRP3 inflammasome-mediated inflammatory responses. NEK7 degrader-3 inhibits caspase-1 activity, cytokine release of IL-1 β , IL-1 α , and IL-18, and pyroptosis-related plasma membrane permeabilization. NEK7 degrader-3 shows antiinflammatory activity in an LPS-induced neuroinflammation mouse model. NEK7 degrader-3 can be used for the research of neuroinflammation [1].

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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In Vivo, NEK7 degrader-3 (Compound 322) (30 mg/kg; p.o.; bid for 5 days) induces NEK7 degradation and inhibits the production of IL-1 β and IL-6 in brain tissues of mice with LPS -induced neuroinflammation^[1].

In Vitro, NEK7 degrader-3 (Compound 322) (0.00001-10 μ M) inhibits Caspase-1 activity and suppresses the release of IL-1 β , IL-1 α and IL-18 in human monocyte-derived macrophages and microglia, and inhibits pyroptotic membrane permeabilization^[1].

References:

[1]. LIARDO Elisa, et al. TARGETED PROTEIN DEGRADATION. WO2026052637. 2026-3-12

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