

Product Data Sheet

Product Name: PROTAC DAPK1 Degradar-1

Cat. No.: GC80881

Chemical Properties

Cas. No. 3063030-38-3

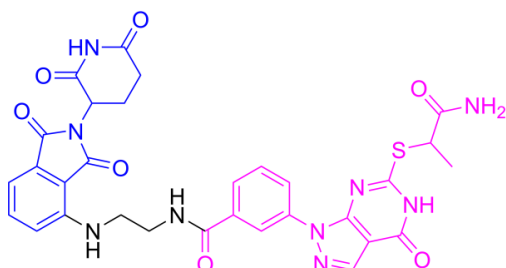
Formula $C_{30}H_{27}N_9O_7S$ M.Wt 657.66

Solubility DMSO: 4.17 mg/mL (6.34 mM; Need ultrasonic) Storage Store at 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

PROTAC DAPK1 Degradar-1 is a death-associated protein kinase 1 (DAPK1) degrader with a DC_{50}

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

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of 119.6 nM. PROTAC DAPK1 Degradator-1 significantly increases MDM2 protein levels and inhibits neuronal apoptosis in ceramide-induced cells. PROTAC DAPK1 Degradator-1 can be used to study neurological disorders such as cerebral ischemia and traumatic brain injury [1]. (Pink: DAPK ligand; Blue: Cereblon ligand; Black: linker).

In Vitro, PROTAC DAPK1 Degradator-1 (CP1) (0.1-10 μ M; 2-24 h) induces time- and dose-dependent degradation of DAPK1 in SH-SY5Y cells, with a DC_{50} of 119.6 nM [1]. PROTAC DAPK1 Degradator-1 mediates the degradation of DAPK1 in SH-SY5Y cells via the proteasomal pathway without altering the expression of DAPK1 mRNA; it exhibits no cytotoxicity against SH-SY5Y cells [1]. PROTAC DAPK1 Degradator-1 (3-10 μ M) upregulates the MDM2 protein level in SH-SY5Y cells, with a significant upregulation at the concentration of 10 μ M, which results from the abrogation of the inhibitory effect of DAPK1 on MDM2 stability [1]. PROTAC DAPK1 Degradator-1 inhibits ceramide-induced apoptosis in SH-SY5Y cells and exhibits neuroprotective effects [1].

References:

[1]. Wu X, et al. Design, synthesis, and biological evaluation of death-associated protein kinase 1 PROTACs. *Bioorganic chemistry*. 2025 Oct;165:109044.

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