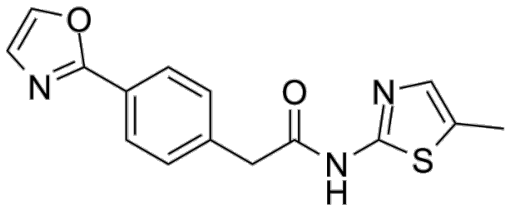
Product Data Sheet

Product Name: ZLY025
Cat. No.: GC80882

Chemical Properties

Cas. No.	3070379-34-6		
Formula	$C_{15}H_{13}N_3O_2S$	M.Wt	299.35
Solubility	DMSO: 5 mg/mL (16.70 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

Product Data Sheet

ZLY025 is a potent and orally active CCNK molecular glue degrader with an DC_{50} of 42.7 nM. ZLY025 exhibits broad-spectrum antiproliferative activity against various tumor cells with IC_{50} values ranging from 0.08 to 2.45 μM. ZLY025 can induce cells apoptosis and G1 phase arrest. ZLY025 can be used for the research of cancer, such as lung cancer [1].

In Vivo, ZLY025 (10-40 mg/kg; i.g.; once daily for 17 days;) inhibits tumor growth in BALB/c nude mice bearing A549 xenografts[1]. ZLY025 (200 mg/kg, i.g., once daily for 14 days) shows extremely low subacute toxicity in ICR mice[1].

In Vitro, ZLY025 exhibits broad-spectrum antiproliferative activity against various tumor cell lines including lung cancer, breast cancer, liver cancer, and leukemia, with IC_{50} values ranging from 0.08 to 2.45 μM[1]. ZLY025 (125-500 nM; 24 h) induces A549 cells apoptosis and G1 phase arrest [1]. ZLY025 (30-1000 nM; 8-24 h) reduces expression of CCNK, CDK12, p-CTD, and BRCA1 in A549 cells[1].

References:
[1]. Liu Y, et al. Discovery of Highly Potent and Orally Available CCNK Molecular Glue Degraders as Broad-Spectrum Antitumor Agents. J Med Chem. 2025;68(21):22689-22714.

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