GCN2-IN-1

Cat. No.: HY-100877

CAS No.: 1448693-69-3

Molecular Formula: $C_{19}H_{18}N_{10}O$

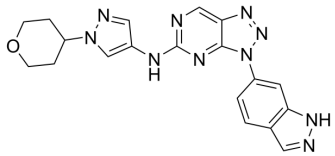
Molecular Weight: 402

Target: Eukaryotic Initiation Factor (eIF)

Pathway: Cell Cycle/DNA Damage

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 60 mg/mL (149.25 mM; Need ultrasonic and warming)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.4876 mL	12.4378 mL	24.8756 mL
5 mM	0.4975 mL	2.4876 mL	4.9751 mL
10 mM	0.2488 mL	1.2438 mL	2.4876 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (6.22 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

GCN2-IN-1 (A-92) is a potent general control nonderepressible 2 kinase (GCN2) inhibitor with an IC_{50} of <0.3 μM in the enzyme assay and an IC_{50} of 0.3-3 μM in the cell assay[1].

IC_{50} & Target

eIF2

In Vitro

GCN2-IN-1 (Compound A-92) is a GCN2 inhibitor, which may be useful as a chemotherapeutic drug for the treatment of cancer[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Discov. 2021 Oct 26;7(1):98.
- Nat Commun. 2023 Oct 25;14(1):6777.
- Nat Commun. 2023 Sep 8;14(1):5535.
- Mol Cell. 2023 Nov 2:S1097-2765(23)00849-3.
- Nucleic Acids Res. 2024 Feb 16:gkae119.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Dieter Dorsch, et al. Triazolo[4,5-d]pyrimidine derivatives. WO2013110309A1.

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