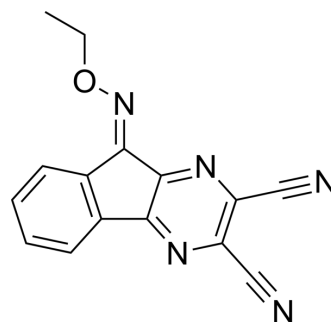


DUB-IN-2

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-50737A | | |
| CAS No.: | 924296-19-5 | | |
| Molecular Formula: | C ₁₅ H ₉ N ₅ O | | |
| Molecular Weight: | 275.26 | | |
| Target: | Deubiquitinase | | |
| Pathway: | Cell Cycle/DNA Damage | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

| | | | | |
|---|---|--------------------------|------------|------------|
| In Vitro | DMSO : 16.67 mg/mL (60.56 mM; Need ultrasonic) | | | |
| | | Solvent Concentration | Mass | |
| | | | 1 mg | 5 mg |
| | | | 10 mg | |
| Preparing Stock Solutions | 1 mM | 3.6329 mL | 18.1646 mL | 36.3293 mL |
| | 5 mM | 0.7266 mL | 3.6329 mL | 7.2659 mL |
| | 10 mM | 0.3633 mL | 1.8165 mL | 3.6329 mL |
| Please refer to the solubility information to select the appropriate solvent. | | | | |
| In Vivo | <ol style="list-style-type: none"> Add each solvent one by one: 50% PEG300 >> 50% saline Solubility: 1.5 mg/mL (5.45 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 1 mg/mL (3.63 mM); Suspended solution; Need ultrasonic | | | |

BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|--|
| Description | DUB-IN-2 is a potent deubiquitinase inhibitor with an IC ₅₀ of 0.28 μM for USP8 ^[1] . |
| IC₅₀ & Target | IC ₅₀ : 0.28 μM (USP8) ^[1] |
| In Vitro | <p>DUBs-IN-2 (compound 22 e) is a potent USP8 inhibitor with an IC₅₀ of 0.28 μM, and has no effect on USP7, with an IC₅₀ of >100 μM. DUBs-IN-2 inhibits the viability of HCT116 colon cell line and PC-3 prostate cancer cell line with IC₅₀ values of 0.5-1.57 μM^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> |

CUSTOMER VALIDATION

- Nat Commun. 2022 Mar 31;13(1):1700.
- Cell Death Differ. 2022 Dec 20.
- Cell Death Differ. 2020 Apr;27(4):1341-1354.
- J Adv Res. 1 February 2022.
- Cell Death Dis. 2022 Mar 31;13(3):286.

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REFERENCES

[1]. Colombo M, et al. Synthesis and biological evaluation of 9-oxo-9H-indeno[1,2-b]pyrazine-2,3-dicarbonitrile analogues as potential inhibitors of deubiquitinating enzymes. ChemMedChem. 2010 Apr 6;5(4):552-8.

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

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