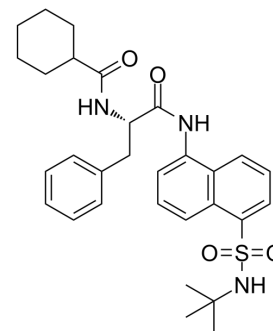


MF-094

| | | | |
|---------------------------|---|-------|---------|
| Cat. No.: | HY-112438 | | |
| CAS No.: | 2241025-68-1 | | |
| Molecular Formula: | C ₃₀ H ₃₇ N ₃ O ₄ S | | |
| Molecular Weight: | 535.7 | | |
| Target: | Deubiquitinase | | |
| 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 : 125 mg/mL (233.34 mM; Need ultrasonic) | | | |
| | | Solvent | Mass | |
| | | Concentration | 1 mg | 5 mg |
| | Preparing Stock Solutions | 1 mM | 1.8667 mL | 9.3336 mL |
| | 5 mM | 0.3733 mL | 1.8667 mL | |
| | 10 mM | 0.1867 mL | 0.9334 mL | |
| | Please refer to the solubility information to select the appropriate solvent. | | | |
| In Vivo | 1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.88 mM); Clear solution | | | |

BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|--|
| Description | MF-094 is a potent and selective USP30 inhibitor with an IC ₅₀ of 120 nM. MF-094 increases protein ubiquitination and accelerates mitophagy ^[1] . |
| IC₅₀ & Target | IC ₅₀ : 120 nM (USP30) ^[1] |
| In Vitro | MF-094 has <30% inhibitory activity for a panel of 22 USPs assays at 10 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

CUSTOMER VALIDATION

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- Nat Commun. 2022 Mar 31;13(1):1700.
 - Bioengineered. 2021 Oct 26.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Kluge AF, et al. Novel highly selective inhibitors of ubiquitin specific protease 30 (USP30) accelerate mitophagy. Bioorg Med Chem Lett. 2018 Aug 15;28(15):2655-2659.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA