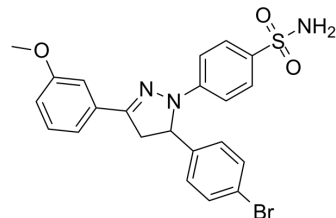


CID44216842

| | | | |
|--------------------|---|-------|----------|
| Cat. No.: | HY-136379 | | |
| CAS No.: | 1222513-26-9 | | |
| Molecular Formula: | C ₂₂ H ₂₀ BrN ₃ O ₃ S | | |
| Molecular Weight: | 486.38 | | |
| Target: | Ras | | |
| Pathway: | GPCR/G Protein | | |
| 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 : 250 mg/mL (514.00 mM; Need ultrasonic) | | | | |
| | | Solvent Concentration | Mass 1 mg | 5 mg | 10 mg |
| | Preparing Stock Solutions | 1 mM | 2.0560 mL | 10.2800 mL | 20.5601 mL |
| | | 5 mM | 0.4112 mL | 2.0560 mL | 4.1120 mL |
| 10 mM | | 0.2056 mL | 1.0280 mL | 2.0560 mL | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | |
| In Vivo | 1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.28 mM); Clear solution | | | | |
| | 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.28 mM); Clear solution | | | | |

BIOLOGICAL ACTIVITY

| | |
|---------------------------|---|
| Description | CID44216842 (Cdc42-IN-1) is a potent Cdc42-selective guanine nucleotide binding lead inhibitor. The EC ₅₀ s for Cdc42 WT and Cdc42Q61L mutant are 1.0 and 1.2 μM in GTP binding assay, respectively. The EC ₅₀ s for Cdc42 WT and Cdc42Q61L mutant are 0.3 and 0.5 μM in GDP binding assay, respectively. Use as a molecular probe ^[1] . |
| IC ₅₀ & Target | EC ₅₀ : 1.0 μM (Cdc42 WT, in GTP binding assay) and 1.2 μM (Cdc42Q61L mutant, in GTP binding assay) ^[1] EC ₅₀ : 0.3 μM (Cdc42 WT, in GDP binding assay) and 0.5 μM (Cdc42Q61L mutant, in GDP binding assay) ^[1] |
| In Vitro | CID44216842 inhibits GTP binding to both Cdc42 and its mutant in a dose-dependent manner. The inhibition is specific toward Cdc42 with no effects on other GTPases including Rac and Rho in the same family ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[1]. Lin Hong, et al. Characterization of a Cdc42 Protein Inhibitor and Its Use as a Molecular Probe. J Biol Chem. 2013 Mar 22;288(12):8531-43.

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

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