# SHP389

**Cat. No.:** HY-114453

**CAS No.:** 2235394-90-6

**Molecular Formula:** $C_{23}H_{29}ClN_8O_2$

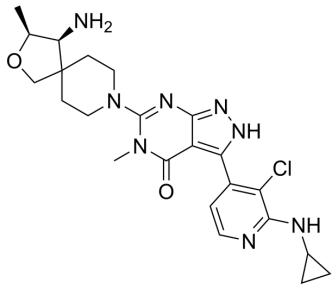
**Molecular Weight:** 484.98

**Target:** Phosphatase; SHP2

**Pathway:** Metabolic Enzyme/Protease; Protein Tyrosine Kinase/RTK

**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 : 100 mg/mL (206.19 mM; Need ultrasonic)

**Preparing Stock Solutions**

| Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|
| 1 mM | 2.0619 mL | 10.3097 mL | 20.6194 mL |
| 5 mM | 0.4124 mL | 2.0619 mL | 4.1239 mL |
| 10 mM | 0.2062 mL | 1.0310 mL | 2.0619 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: ≥ 5 mg/mL (10.31 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 5 mg/mL (10.31 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

SHP389 is an allosteric SHP2 inhibitor, with an $IC_{50}$ of 36 nM for both SHP2 and p-ERK[1].

**$IC_{50}$ & Target**

IC50: 36 nM (SHP2 and p-ERK)[1].

**In Vivo**

SHP389 modulates MAPK signaling in vivo[1].

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

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

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