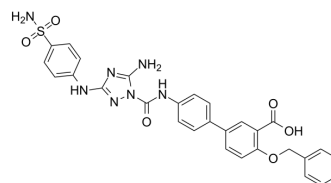


JAK2 JH2 binder-1

| | |
|--------------------|--|
| Cat. No.: | HY-146186 |
| CAS No.: | 2923309-41-3 |
| Molecular Formula: | C ₂₉ H ₂₅ N ₇ O ₆ S |
| Molecular Weight: | 599.62 |
| Target: | JAK |
| Pathway: | Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt |
| Storage: | 4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



SOLVENT & SOLUBILITY

| | | | | | | | |
|---|--|-----------------------|------|-------|-----------|-----------|------------|
| In Vitro | DMSO : 50 mg/mL (83.39 mM; Need ultrasonic) | | | | | | |
| | Preparing Stock Solutions | Solvent Concentration | Mass | 1 mg | 5 mg | 10 mg | |
| | | | | 1 mM | 1.6677 mL | 8.3386 mL | 16.6772 mL |
| | | | | 5 mM | 0.3335 mL | 1.6677 mL | 3.3354 mL |
| | | | | 10 mM | 0.1668 mL | 0.8339 mL | 1.6677 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 (4.17 mM); Clear solution; Need ultrasonic and warming and heat to 80°C | | | | | | |
| | 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (4.17 mM); Clear solution; Need ultrasonic and warming and heat to 80°C | | | | | | |

BIOLOGICAL ACTIVITY

| | |
|---------------------------|---|
| Description | JAK2 JH2 binder-1 (compound 11) is a potent and selective JAK2 JH2 binder, with a K _d of 37.1 nM. JAK2 JH2 binder-1 has the potential for various myeloproliferative neoplasms research ^[1] . |
| IC ₅₀ & Target | JAK2 JH2 37.1 nM (K _d) |

REFERENCES

[1]. Losi ME, et, al. Insights on JAK2 Modulation by Potent, Selective, and Cell-Permeable Pseudokinase-Domain Ligands. J Med Chem. 2022 Jun 23;65(12):8380-8400.

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

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