C-021

| Cat. No.: | HY-103364 | | |
|--------------------|---|-------|----------|
| CAS No.: | 864289-85-0 | C | |
| Molecular Formula: | C ₂₇ H ₄₁ N ₅ O ₂ | | |
| Molecular Weight: | 467.65 | | |
| Target: | CCR | | |
| Pathway: | GPCR/G Protein; Immunology/Inflammation | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |

SOLVENT & SOLUBILITY

| In Vitro Ethanol : 50 mg/mL (DMSO : 50 mg/mL (10 Preparing Stock Solutions | Ethanol : 50 mg/mL (106.92 mM; ultrasonic and warming and heat to 60°C) DMSO : 50 mg/mL (106.92 mM; ultrasonic and warming and heat to 80°C) | | | | | | |
|--|---|-------------------------------|-----------|------------|------------|--|--|
| | | Solvent Mass Concentration | 1 mg | 5 mg | 10 mg | | |
| | Preparing Stock Solutions | 1 mM | 2.1384 mL | 10.6918 mL | 21.3835 mL | | |
| | 5 mM | 0.4277 mL | 2.1384 mL | 4.2767 mL | | | |
| | | 10 mM | 0.2138 mL | 1.0692 mL | 2.1384 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: ≥ 0.71 mg/mL (1.52 mM); Clear solution | | | | | | |
| | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.71 mg/mL (1.52 mM); Clear solution | | | | | | |
| | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.71 mg/mL (1.52 mM); Clear solution | | | | | | |

| BIOLOGICAL ACTIVITY |
|---------------------------------------|
| |
| Description C-021 is mouse binding |
| binding |
| IC ₅₀ & Target CCR4 |

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Product Data Sheet

| In Vitro | The in vitro oxidative metabolic stability of C-021 (Compound 1b) is evaluated by measuring the rate of drug consumption in human liver microsomes (HML), thus providing intrinsic clearance values (CLint). C-021 exhibits CL _{int} value of 17,377 mL/h/kg ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | | |
|----------|--|--|--|--|
| In Vivo | The potency of C-021 (Compound 1b) is evident after subcutaneous administration in the murine oxazolone-induced contact hypersensitivity test, a known model of acute skin inflammation. When C-021 is administered orally, however, we little inhibition is observed ^[1] . C-021 (1 mg/kg; i.p.; daily; for 3 days) significantly less microgliosis in acute liver failuremice ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Animal Model: Male C57Bl/6 mice (20-25 g) with acute liver failure ^[2] Dosage: 1 mg/kg Administration: i.p.; daily; for 3 days Result: Significantly less microgliosis, and significantly reduced the pERK1/2 to tERK1/2 ratio. | | | |
| | | | | |

CUSTOMER VALIDATION

• Biochem Pharmacol. 2023 Mar 2;210:115475.

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REFERENCES

[1]. Yokoyama K, et al. Potent and orally bioavailable CCR4 antagonists: Synthesis and structure-activity relationship study of 2-aminoquinazolines. Bioorg Med Chem. 2009 Jan 1;17(1):64-73.

[2]. Matthew McMillin, et al. Neuronal CCL2 is upregulated during hepatic encephalopathy and contributes to microglia activation and neurological decline. J Neuroinflammation. 2014 Jul 10;11:121.

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

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