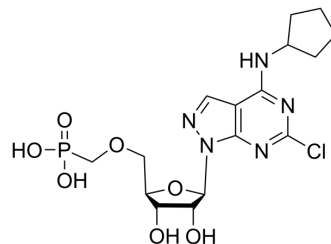


CD73-IN-4

| | | |
|---------------------------|---|----------------|
| Cat. No.: | HY-131967 | |
| CAS No.: | 2216764-29-1 | |
| Molecular Formula: | C ₁₆ H ₂₃ ClN ₅ O ₇ P | |
| Molecular Weight: | 463.81 | |
| Target: | CD73 | |
| Pathway: | Immunology/Inflammation | |
| Storage: | Powder | -20°C 3 years |
| | In solvent | -80°C 6 months |
| | | -20°C 1 month |



SOLVENT & SOLUBILITY

| | | | | | |
|---|---|----------------------|-------------|-------------|--------------|
| In Vitro | DMSO : 125 mg/mL (269.51 mM; Need ultrasonic) | | | | |
| | | Solvent | Mass | | |
| | | Concentration | 1 mg | 5 mg | 10 mg |
| | Preparing Stock Solutions | 1 mM | 2.1561 mL | 10.7803 mL | 21.5606 mL |
| | | 5 mM | 0.4312 mL | 2.1561 mL | 4.3121 mL |
| | | 10 mM | 0.2156 mL | 1.0780 mL | 2.1561 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: ≥ 2.08 mg/mL (4.48 mM); Clear solution | | | | |
| | 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.48 mM); Clear solution | | | | |

BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|--|
| Description | CD73-IN-4 is a potent and selective methylenephosphonic acid CD73 inhibitor, with an IC ₅₀ of 2.6 nM for human CD73. CD73-IN-4 is potential for the research of cancer immunology ^[1] . |
| IC₅₀ & Target | CD73 ^[1] |
| In Vitro | CD73-IN-4 (compound 4a) exhibits excellent potency against soluble hCD73 (IC ₅₀ = 0.86 nM) and soluble mouse CD73 (mCD73; IC ₅₀ = 3.0 nM), CHO cells overexpressing hCD73 (IC ₅₀ = 2.6 nM) or mCD73 (IC ₅₀ = 13 nM), and the human ovary cancer cell line SKOV-3 (IC ₅₀ = 0.55 nM). It exhibits excellent selectivity (IC ₅₀ > 10 000 nM) against CD39, A2aR, and NTPDase2, 3, and 8 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[1]. Ehesan U Sharif, et al. Discovery of Potent and Selective Methylene phosphonic Acid CD73 Inhibitors. J Med Chem. 2021 Jan 5.

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