

Product Data Sheet

Product Name: CD73-IN-4

Cat. No.: GC62452

Chemical Properties

Cas. No. 2216764-29-1

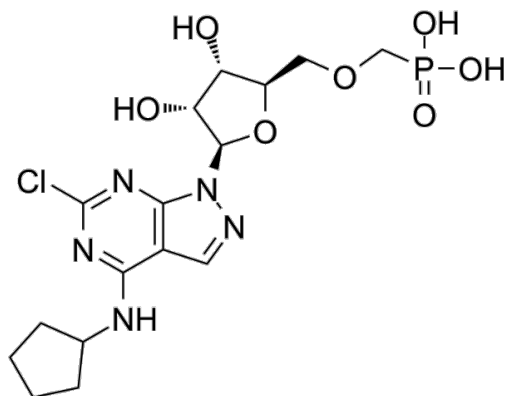
Formula $C_{16}H_{23}ClN_5O_7P$ M.Wt 463.81

Solubility DMSO : 125 mg/mL (269.51 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

CD73-IN-4 is a potent and selective methylenephosphonic acid CD73 inhibitor, with an IC₅₀ of 2.6 nM for human CD73. CD73-IN-4 is potential for the research of cancer immunology[1].

CD73-IN-4 (compound 4a) exhibits excellent potency against soluble hCD73 (IC₅₀ = 0.86 nM) and soluble mouse CD73 (mCD73; IC₅₀ = 3.0 nM), CHO cells overexpressing hCD73 (IC₅₀ = 2.6 nM) or

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mCD73 (IC₅₀ = 13 nM), and the human ovary cancer cell line SKOV-3 (IC₅₀ = 0.55 nM). It exhibits excellent selectivity (IC₅₀ > 10⁷000 nM) against CD39, A2aR, and NTPDase2, 3, and 8[1].

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

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