

AB-680

Chemical Properties

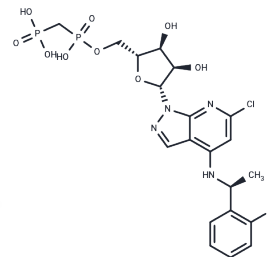
CAS No. : 2105904-82-1

Formula: C₂₀H₂₄ClFN₄O₉P₂

Molecular Weight: 580.82

Storage: Store at low temperature, Store under nitrogen
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	AB-680, a highly potent, reversible, and selective inhibitor of CD73 (an ectonucleotidase, Ki: 4.9 pM for hCD73) with anti-tumor activity, displays >10,000-fold selectivity over related ectonucleotidases CD39.
Targets(IC50)	CD73
In vitro	AB-680 inhibits soluble hCD73 (IC50: 0.043 nM), also inhibits hCD73 in CHO cells, suppresses CD73 in human, mouse CD8+ T Cells and hPBMC, with IC50s of 0.070, 0.008, 0.66 and 0.011 nM, respectively.

Solubility Information

Solubility	DMSO: 150 mg/mL (258.26 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (8.61 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7217 mL	8.6085 mL	17.217 mL
5 mM	0.3443 mL	1.7217 mL	3.4434 mL
10 mM	0.1722 mL	0.8609 mL	1.7217 mL
50 mM	0.0344 mL	0.1722 mL	0.3443 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Lawson KV, et al. Discovery and Characterization of AB680, a Potent and Selective Small-Molecule CD73 Inhibitor for Cancer Immunotherapy.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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