

CCTA-1523

Chemical Properties

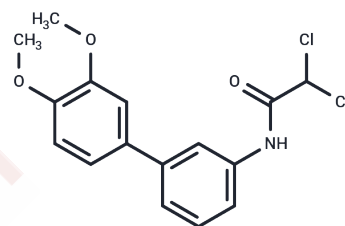
CAS No. : 1616271-41-0

Formula: C₁₆H₁₅Cl₂NO₃

Molecular Weight: 340.2

Storage: 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	CCTA-1523 is an efflux function of ABCG2 inhibitor. CCTA-1523 selectively reverses ABCG2-mediated MDR in cancer cells.
Targets(IC50)	BCRP,ABC Transporter
In vitro	CCTA-1523 (5µM) sensitized the ABCG2 overexpressing cancer cells and ABCG2 transfected cells to the substrate chemotherapeutic drugs[1].
In vivo	Co-administration of CCTA-1523 restored the in vivo antitumor activity of doxorubicin in ABCG2 overexpressing tumor xenografts[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (146.97 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9394 mL	14.6972 mL	29.3945 mL
5 mM	0.5879 mL	2.9394 mL	5.8789 mL
10 mM	0.2939 mL	1.4697 mL	2.9394 mL
50 mM	0.0588 mL	0.2939 mL	0.5879 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

Patel A, Li TW, Anreddy N, Wang DS, Sodani K, Gadhia S, Kathawala R, Yang DH, Cheng C, Chen ZS. Suppression of ABCG2 mediated MDR in vitro and in vivo by a novel inhibitor of ABCG2 drug transport. Pharmacol Res. 2017 Jul; 121:184-193.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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