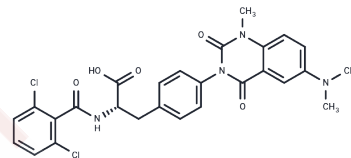


Carotegrast

Chemical Properties

CAS No. :	401904-75-4
Formula:	C ₂₇ H ₂₄ Cl ₂ N ₄ O ₅
Molecular Weight:	555.41
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	Carotegrast is a selective $\alpha 4$ integrin antagonist that inhibits the migration of inflammatory cells to the intestinal mucosa by blocking the interaction between $\alpha 4\beta 1/\alpha 4\beta 7$ integrins and their ligands. Carotegrast is used in research and clinical practice for the treatment of inflammatory bowel diseases such as ulcerative colitis; it exerts local anti-inflammatory effects and results in low systemic exposure.
Targets(IC50)	Integrin

Solubility Information

Solubility	DMSO: 100 mg/mL (180.05 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	1.8005 mL	9.0024 mL	18.0047 mL
5 mM	0.3601 mL	1.8005 mL	3.6009 mL
10 mM	0.180 mL	0.9002 mL	1.8005 mL
50 mM	0.036 mL	0.180 mL	0.3601 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

Kazuyuki S, et al. Preparation of novel phenylalanine derivatives as $\alpha 4$ integrin inhibitors. WO 2003070709 A1
Cheng Y, et al. Application of a PBPK model to elucidate the changes of systemic and liver exposures for rosuvastatin, carotegrast, and bromfenac followed by OATP inhibition in monkeys. Clin Transl Sci. 2021 Sep;14(5): 1924-1934.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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