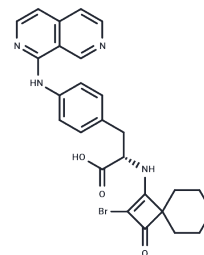


## Zaurategrast

## Chemical Properties

CAS No. :	455264-31-0
Formula:	C <sub>26</sub> H <sub>25</sub> BrN <sub>4</sub> O <sub>3</sub>
Molecular Weight:	521.41
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Zaurategrast (CDP323) is a small-molecule prodrug antagonist that inhibits the interaction between vascular cell adhesion molecule 1 (VCAM-1) and $\alpha$ 4-integrins, originally developed by Celltech plc for oral administration, and it serves as a valuable research compound for investigating leukocyte trafficking, immune cell adhesion, and therapeutic strategies relevant to multiple sclerosis.
Targets(IC50)	Integrin
In vitro	<b>Method:</b> Pharmacokinetic properties of Zaurategrast were assessed using in vitro permeability and uptake assays and in vivo studies in mice, rats, dogs, and cynomolgus monkeys, followed by evaluation of an ethyl ester prodrug. <b>Result:</b> Zaurategrast showed low oral bioavailability in rodents and monkeys due to poor absorption and active hepatic uptake, while the prodrug CDP323 improved permeability and oral bioavailability with effective in vivo conversion[1].

## Solubility Information

Solubility	DMSO: 80 mg/mL (153.43 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.9179 mL	9.5894 mL	19.1788 mL
5 mM	0.3836 mL	1.9179 mL	3.8358 mL
10 mM	0.1918 mL	0.9589 mL	1.9179 mL
50 mM	0.0384 mL	0.1918 mL	0.3836 mL

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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

Hugues Chanteux , et al. Cross-Species Differences in the Preclinical Pharmacokinetics of CT7758, an  $\alpha 4\beta 1/\alpha 4\beta 7$  Integrin Antagonist. Drug Metab Dispos. 2015 Sep;43(9):1381-91.

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