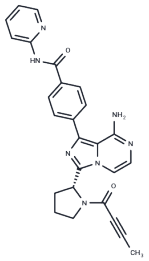
Data Sheet (Cat.No.T67881)

TargetMol

Acalabrutinib enantiomer

Chemical Properties



CAS No. : 1952316-43-6

Formula: C26H23N7O2

Molecular Weight: 465.51

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	Acalabrutinib enantiomer (R-Acalabrutinib) is a chemical compound that belongs to the class of Bruton's tyrosine kinase (BTK) inhibitors. Acarabitinib enantiomers can be used in the study of cancer, autoimmune diseases and chronic inflammation.
Targets(IC50)	BTK
In vitro	The compound has been shown to induce apoptosis (programmed cell death) in cancer cells and to inhibit the proliferation and migration of cancer cells. Acalabrutinib enantiomer has also been shown to have immunomodulatory effects, enhancing the activity of immune cells such as T cells and natural killer cells [1].

Solubility Information

Solubility	DMSO: 12 mg/mL (25.78 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1482 mL	10.7409 mL	21.4818 mL
5 mM	0.4296 mL	2.1482 mL	4.2964 mL
10 mM	0.2148 mL	1.0741 mL	2.1482 mL
50 mM	0.043 mL	0.2148 mL	0.4296 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

Rayala VVSPK, et al. A validated chiral chromatographic method for the enantiomeric separation of acalabrutinib. Chirality. 2022 Sep;34(9):1247-1256.

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