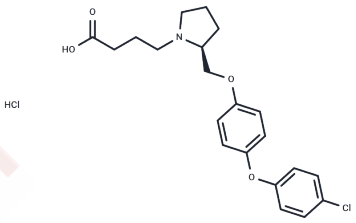
Data Sheet (Cat.No.TQ0047)

DG051

Chemical Properties



CAS No. : 929915-58-2

Formula: C21H25Cl2NO4

Molecular Weight: 426.33

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	DG051 is a potent leukotriene A4 hydrolase (LTA4H) inhibitor with an IC50 of 47 nM.
Targets(IC50)	Aminopeptidase
In vitro	DG051 is a potent LTA4H aminopeptidase inhibitor against L-alanine p-nitroanilide (IC50: 72 nM) and suppresses human whole blood (HWB) with an IC50 of 37 nM [1]. DG051 is currently in Phase II clinical development for preventing heart attacks as an LTA4H inhibitor [2].

Solubility Information

Solubility	DMSO: 317 mg/mL (743.56 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3456 mL	11.728 mL	23.456 mL
5 mM	0.4691 mL	2.3456 mL	4.6912 mL
10 mM	0.2346 mL	1.1728 mL	2.3456 mL
50 mM	0.0469 mL	0.2346 mL	0.4691 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

Sandanayaka V, et al. Discovery of 4-[(2S)-2-{[4-(4-chlorophenoxy)phenoxy]methyl}-1-pyrrolidinyl]butanoic acid (DG-051) as a novel leukotriene A4 hydrolase inhibitor of leukotriene B4 biosynthesis. J Med Chem. 2010 Jan 28;53 (2):573-85.

Enache LA, et al. Synthesis and structural assignment of two major metabolites of the LTA4H inhibitor DG-051. Bioorg Med Chem Lett. 2009 Nov 15;19(22):6275-9.

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