

# DG051

Catalog No: tcsc6085



## Available Sizes

Size: 1mg

Size: 5mg



## Specifications

### CAS No:

929915-58-2

### Formula:

$C_{21}H_{25}Cl_2NO_4$

### Pathway:

Metabolic Enzyme/Protease

### Target:

Aminopeptidase

### Purity / Grade:

>98%

### Solubility:

DMSO :  $\geq 325$  mg/mL (762.32 mM)

### Observed Molecular Weight:

426.33

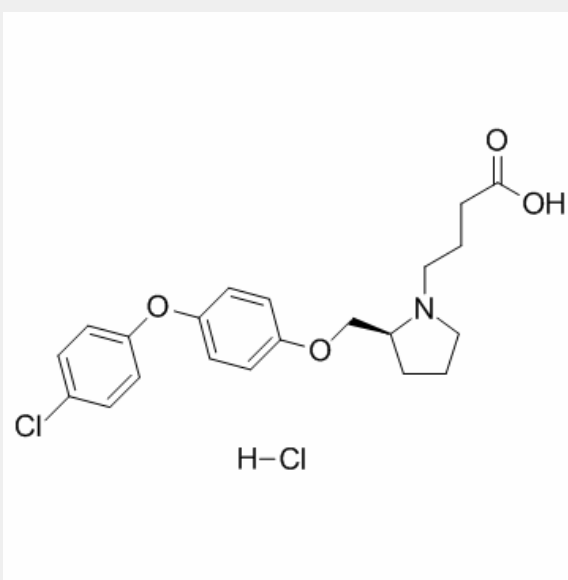
## Product Description

DG051 is a potent **leukotriene A4 hydrolase** inhibitor of leukotriene B4 biosynthesis in the enzyme assay with an **IC<sub>50</sub>**=47 nM.

IC50 & Target: IC50: 47 nM (LTA4H)<sup>[1]</sup>

**In Vitro:** DG051 is a potent inhibitor of LTA4H aminopeptidase activity against L-alanine p-nitroanilide (IC<sub>50</sub>=72 nM). DG051 inhibits human whole blood (HWB) with IC<sub>50</sub> of 37 nM. As applied within the context of LTA4H inhibitor design, the chemistry team is able to

design a potent DG051( $K_d=26$  nM) with high aqueous solubility (>30 mg/mL) and high oral bioavailability (>80% across species) that is currently undergoing clinical evaluation for the treatment of myocardial infarction and stroke<sup>[1]</sup> DG-051 is a first-in-class small molecule inhibitor of leukotriene A4 hydrolase (LTA4H), currently in Phase II clinical development for the prevention of heart attack<sup>[2]</sup>



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!