

Lodelaben

Catalog No: tcsc0018391



Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg



Specifications

CAS No:

111149-90-7

Formula:

$C_{25}H_{41}ClO_3$

Pathway:

Metabolic Enzyme/Protease

Target:

Elastase

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

SC-39026;Declaben

Observed Molecular Weight:

425.04

Product Description

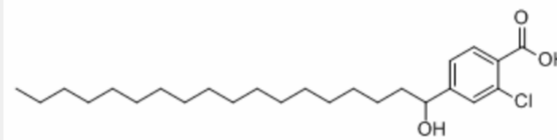
Lodelaben is a human neutrophil **elastase** inhibitor with an **IC₅₀** and **K_i** of 0.5 and 1.5 μM , respectively.

IC50 & Target: IC50: 0.5 μM (elastase)^[1]

Ki: 1.5 μM (elastase)^[1]

In Vitro: Lodelaben is a human neutrophil elastase inhibitor with an **IC₅₀** and **K_i** of 0.5 and 1.5 μM , respectively. Results indicate that the inhibition of human neutrophil elastase (HNE) by Lodelaben is non-competitive. Lodelaben is not inhibitory at 10 μM with the synthetic substrates or at 5 μM with Azocoll. Pseudomonas aeruginosa elastase, a metallo-protease is not inhibited by Lodelaben. Cathepsin G activity, however, is inhibited by Lodelaben, with an **IC₅₀** of approximately 2.5 μM , with Azocoll as substrate^[1].

In Vivo: The mean pulmonary artery pressures of the saline/vehicle and saline/Lodelaben groups are similar, 16.4 ± 1.1 and 17.4 ± 0.9 mm Hg, respectively. Although, mean pulmonary artery pressure in the monocrotaline/vehicle group is 27.5 ± 0.8 mm Hg, treatment of monocrotaline rats with Lodelaben results in significantly lower values (21.00 ± 1.6 mm Hg, $p[2]$).



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