Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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

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Lodelaben is a human neutrophil **elastase** inhibitor with an **IC_{50}** 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 IC_{50} 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-competetive. Lodelaben is not inhibitory at 10 μM with the synthetic substrates or at 5 μM vith Azocoll. Pseudomonas aeruginosa elastase, a metallo-protease is not inhibited by Lodelaben. Cathepsin G activity, however, is inhibited by Lodelaben, with an IC_{50} 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].