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

Fagomine

Catalog No: tcsc0365

Available Sizes

Size: 2mg

Size: 5mg

Size: 10mg

Specifications

CAS No:
53185-12-9

Formula:
$C_6H_{13}NO_3$

Pathway:
Others

Target:
Others

Purity / Grade:
>98%

Solubility:
H2O : ≥ 36 mg/mL (244.62 mM)

Alternative Names:
D-Fagomine

Observed Molecular Weight:
147.17

Product Description

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Fagomine is a mild **glycosidase** inhibitor. The **K_i** of the iminosugar Fagomine is 4.8 μM, 39 μM, and 70 μM for Amyloglucosidase (A. *niger*), β-Glucosidase (bovine), and Isomaltase (yeast), respectively.

IC50 & Target: Glycosidase[1]

In Vitro: Fagomine (D-fagomine) is an iminosugar that has been shown to selectively agglutinate Enterobacteriales in vitro. Fagomine selectively agglutinates fimbriated enterobacteria (e.g., *E.coli*) and inhibits their adhesion to the intestinal mucosa; the reason for this is probably related to its structural similarity with lectin-binding saccharides (e.g., mannose). Fagomine is capable of altering this effect of high-fat high-sucrose diet (HFHS) on the proportion of Enterobacteriales and *E.coli*[2].

In Vivo: Fagomine (D-fagomine) is a natural iminosugar that counteracts the short-term effects of a high-energy-dense diet on body weight, fasting blood glucose levels and the proportion of gut Enterobacteriales[3]. Compare to the standard group, rats fed high-fat high-sucrose diet (HFHS) with Fagomine (D-fagomine) gain significantly less weight (15.3%) than those fed HFHS (20.9%)[2].