

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

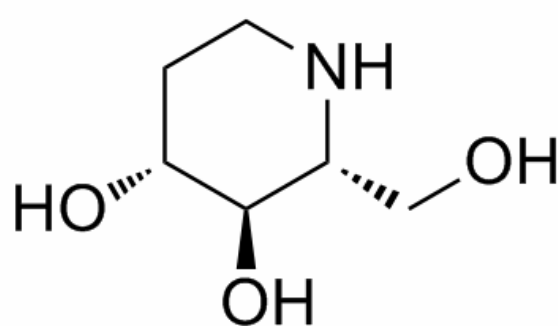
Product Description

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].



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