

Lafutidine

Catalog No: tcsc1992



Available Sizes

Size: 10mg

Size: 50mg



Specifications

CAS No:

118288-08-7

Formula:

$C_{22}H_{29}N_3O_4S$

Pathway:

Immunology/Inflammation;GPCR/G Protein

Target:

Histamine Receptor;Histamine Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

FRG-8813

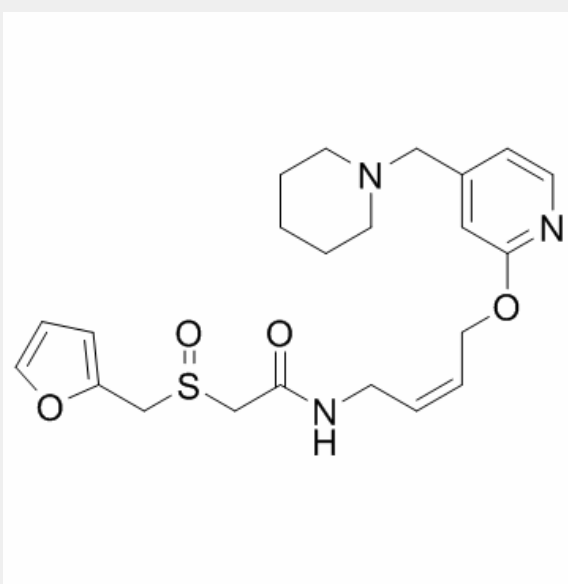
Observed Molecular Weight:

431.55

Product Description

Lafutidine, a newly developed histamine H(2)-receptor antagonist, inhibits gastric acid secretion.

Lafutidine is absorbed in the small intestine, reaches gastric cells via the systemic circulation, and then directly and rapidly binds to gastric cell histamine H2 receptors, thereby inhibiting the stimulation of cAMP and a resultant decrease in acid production (antisecretory action). It causes a sustained increase in intracellular Ca²⁺ ion concentration in endothelial cells resulting in the release of Calcitonin Gene Related Peptide (CGRP), which causes acid suppression by decreasing the vagal tone. Lafutidine also increases plasma somatostatin levels which decreases secretion of gastrin from G cells. This decrease in gastrin causes inhibition of parietal cells, resulting in decrease in gastric acid secretion.



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