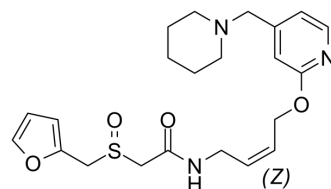


(Z)-Lafutidine

Cat. No.:	HY-121406
CAS No.:	206449-93-6
Molecular Formula:	C ₂₂ H ₂₉ N ₃ O ₄ S
Molecular Weight:	431.55
Target:	Histamine Receptor
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(Z)-Lafutidine ((Z)-FRG-8813) is a potent histamine H ₂ receptor antagonist. (Z)-Lafutidine shows anti-secretory and gastroprotective activities ^[1] .								
In Vivo	<p>(Z)-Lafutidine (Compound 16) stimulates mucin biosynthesis in rat gastric mucosa and this effect not directly due to histamine H₂ receptor antagonism^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Eight- to nine-week-old male C57BL/6 mice weighing 20-24g^[1]</td> </tr> <tr> <td>Dosage:</td> <td>3-30 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>P.o; twice for 6 days (5-FU: 50 mg/kg; i.p.;once daily)</td> </tr> <tr> <td>Result:</td> <td>Reduced the severity of diarrhea during 5-FU treatment,in a mostly dose-dependent manner, and a significant effect was observed at a dose of 30 mg/kg.</td> </tr> </table>	Animal Model:	Eight- to nine-week-old male C57BL/6 mice weighing 20-24g ^[1]	Dosage:	3-30 mg/kg	Administration:	P.o; twice for 6 days (5-FU: 50 mg/kg; i.p.;once daily)	Result:	Reduced the severity of diarrhea during 5-FU treatment,in a mostly dose-dependent manner, and a significant effect was observed at a dose of 30 mg/kg.
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REFERENCES

[1]. Hirakawa N, et al. A novel histamine 2(H₂) receptor antagonist with gastroprotective activity. II. Synthesis and pharmacological evaluation of 2-furfuryl-thio and 2-furfurylsulfinyl acetamide derivatives with heteroaromatic rings. Chem Pharm Bull (Tokyo). 1998;46(4):616-622.

Caution: Product has not been fully validated for medical applications. For research use only.

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