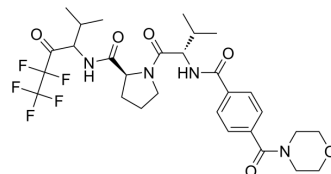


MDL 101146

Cat. No.:	HY-117668
CAS No.:	149859-17-6
Molecular Formula:	C ₂₉ H ₃₇ F ₅ N ₄ O ₆
Molecular Weight:	632.62
Target:	Elastase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MDL 101146 is an orally active neutrophil elastase inhibitor. MDL 101146 inhibits neutrophil elastase for human with a K _i value of 25 nM. MDL 101146 can be used for the research of arthritis ^{[1][2]} .	
IC₅₀ & Target	K _i for neutrophil elastase: 25 nM (human); 18 nM (rat) ^{[1][2]}	
In Vitro	MDL 101,146 inhibits human neutrophil elastase with a K _i value of 25 nM ^[1] . MDL 101,146 inhibits rat neutrophil elastase activity in a dose-related manner with a K _i value of 18 nM ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	MDL 101146 (oral, 200 mg/kg/day) significantly inhibits swelling and joint destruction in collagen-induced arthritis but not in adjuvant arthritis ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Rats ^[2]
	Dosage:	200 mg/kg
	Administration:	Oral, 200 mg/kg/day
	Result:	Inhibited the severity of collagen-induced arthritis. Had a bone and cartilage sparing effect in the tibio-tarsal joint of animals with collagen-induced arthritis.

REFERENCES

[1]. Angelastro M, et al. Inhibition of human neutrophil elastase with peptidyl

[2]. M J Janusz, et al. Inhibition of cartilage degradation in rat collagen-induced arthritis but not adjuvant arthritis by the neutrophil elastase inhibitor MDL 101,146. *Inflamm Res.* 1997 Dec;46(12):503-8.

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

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