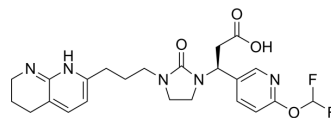


Nesvategrast

Cat. No.:	HY-117133
CAS No.:	1621332-91-9
Molecular Formula:	C ₂₃ H ₂₇ F ₂ N ₅ O ₄
Molecular Weight:	475.49
Target:	Integrin
Pathway:	Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Nesvategrast (SF0166) is a potent and selective $\alpha_v\beta_3$ antagonist with IC ₅₀ values of 0.6 nM, 8 nM, and 13 nM for $\alpha_v\beta_3$, $\alpha_v\beta_6$, and $\alpha_v\beta_8$, respectively. Nesvategrast inhibits cellular adhesion to vitronectin across human, rat, rabbit, and dog cell lines with IC ₅₀ values of 7.6 pM to 76 nM. Nesvategrast decreases neovascularization in the oxygen-induced retinopathy mouse model ^[1] .		
IC₅₀ & Target	$\alpha_v\beta_3$ 0.6 nM (IC ₅₀)	$\alpha_v\beta_6$ 8 nM (IC ₅₀)	$\alpha_v\beta_8$ 13 nM (IC ₅₀)
In Vitro	Nesvategrast (0.5-4 μ g; 12 days; chick chorioallantoic membrane (CAM) models) inhibits angiogenesis stimulated by basic fibroblast growth factor in a dose-dependent manner ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	Nesvategrast (Bilateral eye topical drip 5% Nesvategrast) inhibits retinal neovascularization in 129SVE newborn mice with oxygen-induced retinopathy (OIR) models ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Female 129SVE newborn mice with oxygen-induced retinopathy (OIR) models ^[1]	
	Dosage:	5% SF0166	
	Administration:	Bilateral eye topical drip 5% SF0166	
	Result:	Reduced new blood vessel formation.	

REFERENCES

[1]. Askew BC, et, al. Ocular Distribution and Pharmacodynamics of SF0166, a Topically Administered $\alpha_v\beta_3$ Integrin Antagonist, for the Treatment of Retinal Diseases. J Pharmacol Exp Ther. 2018 Aug;366(2):244-250.

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

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