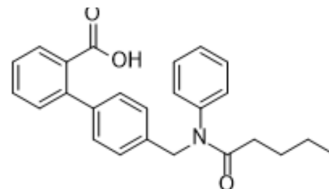


CAY10583

Cat. No.:	HY-122124
CAS No.:	862891-27-8
Molecular Formula:	C ₂₅ H ₂₅ NO ₃
Molecular Weight:	387.47
Target:	Leukotriene Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CAY10583 is a potent and selective full Leukotriene B4 receptor type 2 (BLT2) agonist. CAY10583 directly promotes keratinocyte migration in vitro and accelerates wound closure in vivo. CAY10583 is a promising pharmaceutical agent for diabetic wounds ^[1] .
IC₅₀ & Target	BLT2
In Vitro	CAY10583 (1 nM-1μM; 24 hours) promotes wound closure via keratinocyte migration. And CAY10583 has no significant effect of on keratinocyte proliferation ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	CAY10583 (administered topically to full-thickness wounds; 10 μM; 14 days) significantly results in a greater wound closure than the control group. The difference in wound closure between the CAY-treated group and the control group is pronounced over time until day 10. And the difference is approximately 6% at day 4 and reaches almost 20% at day 8. Notably, 100% closure was observed in the CAY-treated group at day 14 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	Lewis rats (6-9 weeks of age, 180-220 g) ^[1]
Dosage:	10 μM; 14 days
Administration:	Administered topically to full-thickness wounds; 10 μM; 14 days
Result:	Accelerated in vivo wound healing by topical application.

REFERENCES

[1]. Lin Luo, et al. A synthetic leukotriene B 4 receptor type 2 agonist accelerates the cutaneous wound healing process in diabetic rats by indirect stimulation of fibroblasts and direct stimulation of keratinocytes. J Diabetes Complications. 2017 Jan;31(1):13-20

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

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