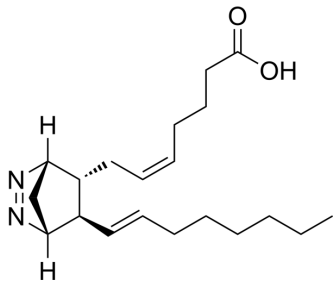
U-51605

Cat. No.:	HY-129199
CAS No.:	64192-56-9
Molecular Formula:	$C_{20}H_{32}N_2O_2$
Molecular Weight:	332.48
Target:	Prostaglandin Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	U-51605 is a platelet aggregation inhibitor and inhibits thromboxane synthesis. U-51605 is also a prostaglandin I2 synthase inhibitor and can inhibit the retinal vasodilation response induced by NO donors (such as NOR3)[1][2].
IC_{50} & Target	Prostaglandin I2 synthase inhibitor 9α[2]
In Vitro	U-51605 (3 μM) inhibits acetylcholine-induced endothelium-dependent contraction[1]. U-51605 (0.5, 1, 3 and 10 μM) increases in acetylcholine-induced release of PGE2 and PGF2α[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Needleman P, Bryan B, Wyche A, et al. Thromboxane synthetase inhibitors as pharmacological tools: differential biochemical and biological effects on platelet suspensions[J]. Prostaglandins, 1977, 14(5): 897-907.

[2]. Mori A, Namekawa R, Hasebe M, et al. Involvement of prostaglandin I2 in nitric oxide-induced vasodilation of retinal arterioles in rats[J]. European Journal of Pharmacology, 2015, 764: 249-255.

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