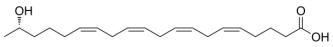
19(S)-HETE

Cat. No.:	HY-142972
CAS No.:	115461-40-0
Molecular Formula:	$C_{20}H_{32}O_3$
Molecular Weight:	320.47
Target:	Prostaglandin Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	19(S)-HETE is an arachidonic acid metabolite produced by cytochrome P450 enzymes. 19(S)-HETE is a full orthosteric agonist of the prostacyclin (IP) receptor with an EC_{50} value of 567 nM. 19(S)-HETE inhibits platelet activation and relaxation of vessels[1].
In Vitro	19(S)-HETE (1 μM; 15 min) dose-dependently induces cAMP in MEG-01 cells with an EC_{50} value of 520 nM[1]. 19(S)-HETE (1 μM-1 M) dose-dependently activates the IP receptor with an EC_{50} value of 567 nM[1]. 19(S)-HETE (10 μM-1 M) displaces ^{3}H-iloprost of IP receptor expressed COS-1 cells with a K_i value of 660 nM[1]. 19(S)-HETE (3 μM) relaxes arterial blood vessels and inhibits platelet activation[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Tunaru S, et al. Arachidonic Acid Metabolite 19(S)-HETE Induces Vasorelaxation and Platelet Inhibition by Activating Prostacyclin (IP) Receptor. PLoS One. 2016 Sep 23;11(9):e0163633.

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