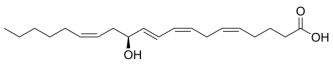
12(S)-HETE

Cat. No.:	HY-124404A
CAS No.:	54397-83-0
Molecular Formula:	$C_{20}H_{32}O_3$
Molecular Weight:	320.47
Target:	ERK; DNA/RNA Synthesis; p38 MAPK
Pathway:	MAPK/ERK Pathway; Stem Cell/Wnt; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	12(S)-HETE is the 12-lipoxygenase metabolite of arachidonic acid and has a mitogenic effect on cancer cell proliferation. 12(S)-HETE induces tyrosine phosphorylation of cellular proteins, promotes ERK and P38 MAPK phosphorylation, increases DNA synthesis, and stimulates the proliferation of pancreatic cancer cells[1][2].

REFERENCES

[1]. Ding XZ, et al. 12-lipoxygenase metabolite 12(S)-HETE stimulates human pancreatic cancer cell proliferation via protein tyrosine phosphorylation and ERK activation. Int J Cancer. 2001 Dec 1;94(5):630-6.

[2]. Tang DG, et al. 12(S)-HETE is a mitogenic factor for microvascular endothelial cells: its potential role in angiogenesis. Biochem Biophys Res Commun. 1995 Jun 15;211(2):462-8.

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