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DATASHEET

12(S)-HPETE

Product overview

Name	12(S)-HPETE
Cat No	HB0060
Biological action	Inhibitor
Purity	>98%
Description	CaM kinase II inhibitor

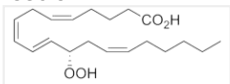
Biological Data

Biological description	Endogenous CAMKII inhibitor. Shows many biological actions. Suppresses platelet cyclooxygenase to suppress thromboxane and inhibits platelet activation. Shows neurotoxic actions.
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Solubility & Handling

Solubility overview	Soluble in water (0.8mg/ml, at 25°C) or DMSO
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	12S-hydroperoxy-5Z,8Z,10E,14Z-eicosatetraenoic acid
Molecular Weight	336.5
Chemical structure	
Molecular Formula	C ₂₀ H ₃₂ O ₄
CAS Number	71774-10-2
PubChem identifier	656507
SMILES	CCCCC=CCC(C=CC=CCCC(=O)O)OO

References

12-hydroperoxyeicosatetraenoic acid inhibits main platelet functions by activation of soluble guanylate cyclase.

Brüne B *et al* (1991) Mol Pharmacol 39(5)

PubMedID [1674588](#)

Inhibition of renin release by arachidonic acid metabolites, 12(s)-HPETE and 12-HETE: role of TRPV1 channels.

Xie C *et al* (2011) Endocrinology 152(10)

PubMedID [21846804](#)

Interactions between CB(1) receptors and TRPV1 channels mediated by 12-HPETE are cytotoxic to mesencephalic dopaminergic neurons.

Kim SR *et al* (2008) Br J Pharmacol 155(2)

