Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

DATASHEET

12(S)-HPETE

Product overview

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

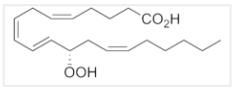
Biological Data

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

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	CCCCCC=CCC(C=CC=CCC=CCCCC(=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)

PubMedID	18552868