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## DATASHEET

12(S)-HPETE

### Product overview

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

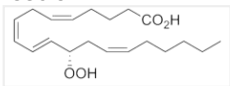
### Biological Data

<b>Biological description</b>	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

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

### Chemical Data

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

