

(+/-)19(20)-EpDPA biochemical

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CATALOG #
AAA227270

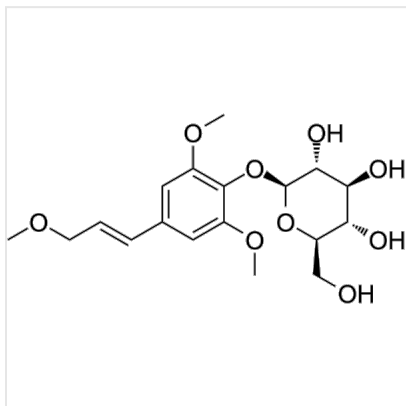
PRODUCT SYNONYMS

(+/-)19(20)-EpDPA; (+/-)19(20)-EpDPA biochemical

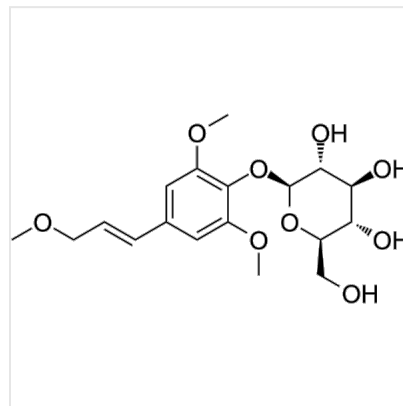
PRODUCT SPECIFICATIONS

Purity/Purification	98%
Solubility	DMSO: 50 mg/mL
	DMF: 50 mg/mL
	PBS (pH 7.2): 1 mg/mL
	Ethanol: 50 mg/mL
	<1mg/ml refers to the product slightly soluble or insoluble
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
Methylsyngin, CAS 139742-20-4



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ADDITIONAL INFORMATION

Related Product Information for (+/-)19(20)-EpDPA biochemical

EDHF (endothelium-derived hyperpolarizing factor) is an unidentified mediator released from vascular endothelial cells in response to acetylcholine and bradykinin which is distinct from the NOS- (nitric oxide) and COX-derived (prostacyclin) vasodilators. Cytochrome P450 (CYP450) metabolism of polyunsaturated fatty acids produces epoxides such as (+/-)14(15)-EpETE which are prime candidates for the actual active mediator. However, the CYP450 metabolites of eicosapentaenoic acid and docosahexaenoic acid have been little studied relative to arachidonate epoxigenase metabolites. (+/-)19(20)-EpDPA is a DHA epoxigenase metabolite, derived via epoxidation of the omega-3 double bond of DHA. The EDHF activity of (+/-)19(20)-EpDPA has not yet been determined. The epoxigenase metabolites of DHA have also been detected in a mouse inflammation model.

References

1. Dong H, et al. Total Syntheses and Anti-inflammatory Activities of Syringin and Its Natural Analogues. J Nat Prod. 2021 Nov 26;84(11):2866-2874.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/19-20-epdpa/227270>