



(±)5(6)-DiHETE

Cat. No.:	OB0626WX-2699
Appearance:	Liquid
Purity:	≥97%
Identity:	Confirmed by TLC and HPLC.
Size:	25 µg; 50 µg; 100 µg; 250 µg

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	(±)5(6)-DiHETE is a vicinal dihydroxy polyunsaturated fatty acid metabolite generated through the enzymatic or chemical epoxidation and subsequent hydration of eicosapentaenoic acid at the alpha-5 double bond position. This oxygenated eicosanoid derivative acts as a distinct reference standard for mapping complex lipidomic profiles and investigating alternative omega-3 metabolic pathways.
Formulation	Ethanol solution (100 µg/mL)
Synonyms	(±)5,6-dihydroxy-8Z,11Z,14Z,17Z-eicosatetraenoic acid; 5,6-DiHETE; 5,6-Dihydroxy-8Z,11Z,14Z,17Z-eicosatetraenoic acid; (8Z,11Z,14Z,17Z)-5,6-dihydroxyicosa-8,11,14,17-tetraenoic acid; 845673-97-4; (+/-)5,6-dihydroxy-8Z,11Z,14Z,17Z-eicosatetraenoic acid
CAS No.	845673-97-4
Compound CID	14429105
Formula	C ₂₀ H ₃₂ O ₄
Formula Weight	336.5

Specification

Solubility in DMSO	30 mg/mL
Solubility in Ethanol	30 mg/mL
Solubility in DMF	30 mg/mL
Solubility in Other Solvents	PBS: 0.5 mg/mL



IUPAC Name	(8Z,11Z,14Z,17Z)-5,6-dihydroxyicosa-8,11,14,17-tetra enoic acid
InChI	InChI=1S/C20H32O4/c1-2-3-4-5-6-7-8-9-10-11-12-13-15-18(21)19(22)16-14-17-20(23)24/h3-4,6-7,9-10,12-13,18-19,21-22H,2,5,8,11,14-17H2,1H3,(H,23,24)/b4-3-,7-6-,10-9-,13-12-/t18-,19-/m1/s1
InChI Key	VPXVODYVPILPRC-ZGATWMQVSA-N
Canonical SMILES	<chem>CC/C=C\C/C=C\C/C=C\C/C=C\C[C@@H](O)[C@H](O)CCCC(O)=O</chem>
Stability	1 year
Storage	Storage at -20°C.
Applications	(±)5(6)-DiHETE serves as an analytical reference compound for hydroxylated eicosatetraenoic acid metabolite analysis. It supports oxylipin profiling, structural characterization, chromatographic method development, and investigation of arachidonic acid-derived lipid transformation pathways.