



(±)14(15)-DiHETE

Cat. No.:	OB0626WX-3078
Appearance:	Liquid
Purity:	≥98%
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	(±)14(15)-DiHETE is an oxygenated lipid metabolite derived from the omega-3 poly unsaturated fatty acid eicosapentaenoic acid. Its formation occurs <i>via</i> regional cytochrome P450-mediated epoxidation of the fatty acid backbone to form an intermediate epoxide, which is subsequently converted into the corresponding vicinal diol by the action of soluble epoxide hydrolases.
Formulation	Ethanol solution (100 µg/mL)
Synonyms	(±)14,15-dihydroxy-5Z,8Z,11Z,17Z-eicosatetraenoic acid; (±)14,15-dihydroxy-eicosa-5,8,11,17-Tetraenoic Acid
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
InChI	InChI=1S/C20H32O4/c1-2-3-12-15-18(21)19(22)16-13-10-8-6-4-5-7-9-11-14-17-20(23)24/h3-4,6-7,9-10,12-13,18-19,21-22H,2,5,8,11,14-17H2,1H3,(H,23,24)/b6-4-,9-7-,12-3-,13-10-/t18-,19-/m1/s1
InChI Key	BLWCDFIELVFRJY-YYXNPAPNSA-N



Canonical SMILES

CC/C=C\C[C@@H](O)[C@H](O)C/C=C\C/C=C\C/C=C\CCCC(O)=O

Stability

1 year

Storage

Storage at -20°C.

Applications

(±)14(15)-DiHETE provides an analytical reference compound for the characterization of dihydroxylated eicosanoid metabolites. It supports lipid mediator profiling, structural confirmation, and quantitative analysis of arachidonic acid-derived lipid transformation products.