



15(R)-Pinane thromboxane A2

Cat. No.:	OB0626WX-2989
Appearance:	Liquid
Purity:	≥98%
Identity:	Confirmed by IR and TLC.
Size:	500 µg; 1 mg; 2.5 mg; 5 mg; 10 mg

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

Product Overview

Description	15(R)-Pinane thromboxane A2 is the chiral epimer of the stable thromboxane analogue pinane thromboxane A2, exhibiting a reversed stereochemical configuration at the C-15 hydroxyl locus. This minor modification significantly reduces its potency relative to the parent molecule, altering its capacity to interfere with collagen-mediated platelet aggregation dynamics or modulate smooth muscle tone in isolated tissue profiles.
Formulation	Ethanol solution (5 mg/mL)
Synonyms	(5Z)-7-[(1S,2R,3R,5S)-3-[(1E,3R)-3-hydroxy-1-octen-1-yl]-6,6-dimethylbicyclo[3.1.1]hept-2-yl]-5-heptenoic acid; 15-epi-Pinane Thromboxane A2; 15-iso-Pinane Thromboxane A2; 15(R)-PTA2; 15-epi-PTA2; 15-iso-PTA2; pinane-thromboxane A2; pinane thromboxane A2; 71154-83 -1
CAS No.	71154-83-1
Compound CID	6438641
Formula	C ₂₄ H ₄₀ O ₃
Formula Weight	376.6

Specification

Solubility in DMSO	25 mg/mL
Solubility in Ethanol	100 mg/mL
Solubility in DMF	50 mg/mL



Solubility in Other Solvents	PBS: 0.15 mg/mL
IUPAC Name	(Z)-7-[(1S,2R,5S)-3-[(E,3R)-3-hydroxyoct-1-enyl]-6,6-dimethyl-2-bicyclo[3.1.1]heptanyl]hept-5-enoic acid
InChI	InChI=1S/C24H40O3/c1-4-5-8-11-20(25)15-14-18-16-19-17-22(24(19,2)3)21(18)12-9-6-7-10-13-23(26)27/h6,9,14-15,18-22,25H,4-5,7-8,10-13,16-17H2,1-3H3,(H,26,27)/b9-6-,15-14+/t18-,19-,20+,21+,22-/m0/s1
InChI Key	OHJIHGVLRDHS DV-PUYXBYOHS A-N
Canonical SMILES	CCCCC[C@@H](O)/C=C/[C@H]1C[C@H]2C[C@H](C2(C)C)[C@@H]1C/C=C\CCCC(O)=O
Stability	1 year
Storage	Storage at -20°C.
Applications	15(R)-Pinane thromboxane A2 serves as a stable thromboxane analog reference compound for lipid mediator research and analytical characterization. It supports studies involving thromboxane-related structures, chromatographic analysis, and investigation of prostanoid derivative profiles.