



PGF2α ethyl amide

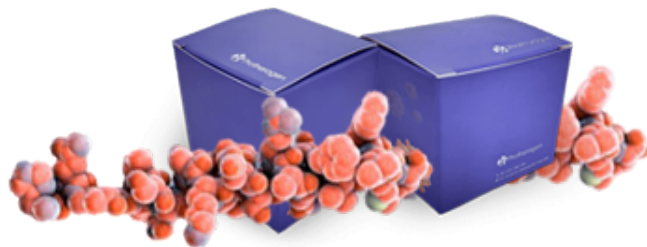
Cat. No.:	OB0626WX-3439
Appearance:	Liquid
Purity:	≥98%
Identity:	Confirmed by TLC and HPLC.
Size:	1 mg; 5 mg; 10 mg; 25 mg

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

Product Overview

Description	PGF2α ethyl amide is a synthetic eicosanoid analogue in which the native C-1 terminal carboxyl group is modified to an N-ethyl amide structure, functioning as a stable, uncharged prostanoid prodrug. This derivative exhibits heavily shifted, extended hydrolysis pharmacokinetics compared to traditional ester configurations, undergoing steady enzymatic conversion within tissue matrices to liberate the active free acid and drive standard F-series prostanoid responses.
Formulation	Methyl acetate solution (10 mg/mL)
Synonyms	N-ethyl-9α,11α,15S-trihydroxy-prosta-5Z,13E-dien-1-amide; Dinoprost ethyl amide; PGF2α-NEt; N-Ethyl-9α, 11α, 15S-trihydroxy- prosta-5Z, 13E-dien-1-amide; Prostaglandin F2α ethyl amide; (Z)-7-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(E,3<i>i>S)-3-hydroxyoct-1-enyl]cyclopentyl]-N-ethylhept-5-enamide; Prostaglandin F2α ethyl amide; Prostaglandin F2 ethyl amide; Prostaglandin F2.α. ethyl amide; (5Z,9α,11α,13e,15s)-N-ethyl-9,11,15-trihydroxy-prosta-5,13 -dien-1-amide; (Z)-7-[(1R,2R,3R,5S)-3,5-Dihydroxy-2-[(S,E)-3-hydroxyoct-1-en-1-yl]cyclopentyl)-N-ethylhept-5-enamide; (Z)-7-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(E,3S)-3-hydroxyoct-1-enyl]cyclopentyl]-N-ethyl-hept-5-enamide
CAS No.	54130-36-8
Compound CID	52193842
Formula	C ₂₂ H ₃₉ NO ₄
Formula Weight	381.6

Specification



Solubility in DMSO	16 mg/mL
Solubility in Ethanol	20 mg/mL
Solubility in DMF	33 mg/mL
Solubility in Other Solvents	PBS: 300 µg/mL
IUPAC Name	(Z)-7-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(E,3S)-3-hydroxyoct-1-enyl]cyclopentyl]-N-ethylhept-5-enamide
InChI	InChI=1S/C22H39NO4/c1-3-5-8-11-17(24)14-15-19-18(20(25)16-21(19)26)12-9-6-7-10-13-22(27)23-4-2/h6,9,14-15,17-21,24-26H,3-5,7-8,10-13,16H2,1-2H3,(H,23,27)/b9-6-, 15-14+/t17-,18+,19+,20-,21+/m0/s1
InChI Key	HLETUMXUCSCVPL-GWSKAPOCSA-N
Canonical SMILES	<chem>O[C@@H](CCCCC)/C=C/[C@H]1[C@H](O)C[C@H](O)[C@@H]1C/C=C\CCCC(N([H])CC)=O</chem>
Stability	1 year
Storage	Storage at -20°C.
Applications	PGF2α ethyl amide serves as a reference compound for prostaglandin analog analysis and lipid mediator research. It supports analytical profiling, structural identification, and comparative studies of modified prostanoid compounds.