

Product Data Sheet

Product Name: 15(S)-15-methyl Prostaglandin F_{2α} ethyl amide

Cat. No.: GC52511

Chemical Properties

Cas. No.

SMILES O[C@@H]1C[C@H](O)[C@H](C/C=C\CCCC(NCC)=O)[C@H]1/C=C/[C@](O)(C)CCCC

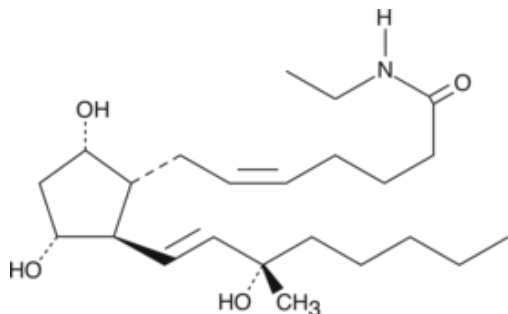
Formula C₂₃H₄₁NO₄ M.Wt 395.6

Solubility DMF: 50 mg/ml, DMSO: 50 mg/ml, Ethanol: 50 mg/ml, PBS (pH 7.2): 0.5 mg/ml Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

15(S)-15-methyl Prostaglandin F_{2α} has been shown to have potent uterine stimulant and abortifacient properties when administered intramuscularly to induce labor.^{1,2} 15(S)-15-methyl PGF_{2α} ethyl amide is a lipophilic analog of 15(S)-15-methyl PGF_{2α} methyl ester. Prostaglandin esters are generally hydrolyzed to the free acid upon *in vivo* administration, making the methyl esters useful prodrugs.³ Hydrolysis of prostaglandin amides *in vivo* is not thoroughly established.

1. Carlan, S.J., Gushwa, J.P., O'Brien, W.F., et al. Effect of intramuscular 15-methyl prostaglandin F_{2α}

Caution: Product has not been fully validated for medical applications. For research use only.

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after second-trimester delivery Obstet. Gynecol. 895-9 (1997) 2. Lindblom, B., Kallfelt, B., Hahlin, M., et al. Local prostaglandin F₂ α injection for termination of ectopic pregnancy Lancet 776-777 (1987) 3. Miller, W.L., and Sutton, M.J. Relative biological activity of certain prostaglandins and their enantiomers Prostaglandins 11(1) 77-84 (1976)

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