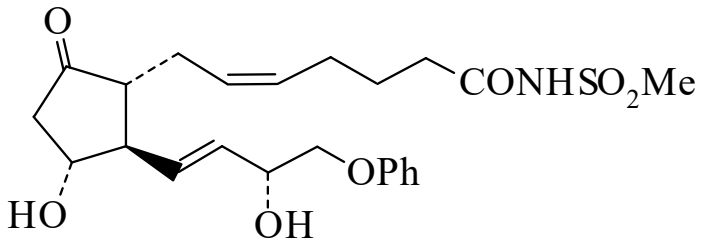
>>**Entry Name: Sulprostone,** INN, USAN

Synonym(s): 7-[3-Hydroxy-2-(3-hydroxy-4-phenoxy-1-butenyl)-5-oxocyclopentyl]-*N*-(methylsulfonyl)-5-heptenamide. 11,15-Dihydroxy-*N*-methanesulfonyl-9-oxo-16-phenoxy-17,18,19,20-tetranorprosta-5,13-dienamide. Nalador. CP 34089. SHB 286. ZK 57671



CAS Registry Number: 60325-46-4

Molecular Formula: $C_{23}H_{31}NO_7S$
Molecular Weight: 465.566
Accurate Mass: 465.182124
Percentage Composition: C 59.34%; H 6.71%; N 3.01%; O 24.06%; S 6.89%
Use/Importance: Prostanoid EP_3-receptor agonist. Tissue-selective PGE_2 analogue with potent antifertility effects. Abortifacient
Melting Point: Mp 78.5-80°
Solubility: Spar. sol. H_2O, sol. EtOH
Calculated Log P Data: Log P –0.02 (calc)
Hazard & Toxicity: Human and exp. reprod. effects (v. low doses)

References:

Hess, H.J. *et al.*, *Experientia*, 1977, **33**, 1076
Friebel, K. *et al.*, *Int. Sulprostone Symp., [Pap.]*, Eds., Schering AG, Berlin, 1978, 1979, *(book)*
Schaaf, T.K. *et al.*, *J. Med. Chem.*, 1981, **24**, 1353, *(synth, pharmacol)*
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 1159
Therapeutic Applications of Prostaglandins, (eds. Vane, J.R. *et al*), E. Arnold, 1993, *(pharmacol)*
Lewis, R.J.*, Sax's Dangerous Properties of Industrial Materials, 8th edn., Van Nostrand Reinhold*, 1992, SOU650