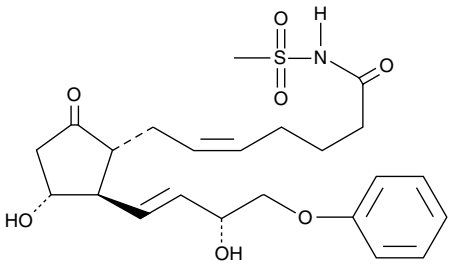
Product Information

Sulprostone

Item No. 14765

CAS Registry No.: 60325-46-4
Formal Name: N-(methylsulfonyl)-9-oxo-11α,15R-dihydroxy-16-phenoxy-17,18,19,20-tetranor-prosta-5Z,13E-dien-1-amide
MF: $C_{23}H_{31}NO_7S$
FW: 465.6
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A solution in methyl acetate
UV/Vis.: λ_{max}: 220, 270 nm, ε: 10,500



Laboratory Procedures

For long term storage, we suggest that sulprostone be stored as supplied at -20°C. It should be stable for at least two years.

Sulprostone is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the sulprostone under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of sulprostone in these solvents is approximately 10 mg/ml. Sulprostone is soluble in ethanol at a concentration of approximately 25 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing any biological experiments. Avoid adding Sulprostone to basic solutions (pH >7.4), as base treatment will degrade sulprostone to PGA and PGB compounds. Also, ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. If an organic solvent-free solution of sulprostone is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers.The solubility of sulprostone in PBS (pH 7.2) is approximately 4 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Sulprostone is more resistant to the metabolic inactivating pathways than natural prostaglandins. It exhibits potent, tissue-selective uterine stimulating activity.[1]

Reference

1. Schaaf, T.K., Bindra, J.S., Eggler, J.F., *et al.* N-(Methanesulfonyl)-16-phenoxyprostaglandincarboxamides: Tissue-selective uterine stimulants. *J. Med. Chem.* **24,** 1353-1359 (1981).

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