

Product Data Sheet

Product Name: Prostaglandin B3

Cat. No.: GC40766

Chemical Properties

Cas. No. 36614-32-1

SMILES O=C1C(C/C=C\C/C=C/C(C(=O)O)=O)=C(/C=C/[C@@H](O)C/C=C\CC)CC1

Formula C₂₀H₂₈O₄

M.Wt 332.4

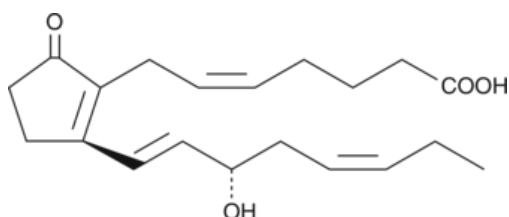
Solubility DMF: >75 mg/ml (from PGB2), DMSO: >50 mg/ml (from PGB2), Ethanol: >100 mg/ml (from PGB2), PBS pH 7.2: >2 mg/ml (from PGB2)

Storage Store at -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

Prostaglandin B3 (PGB3) is a non-enzymatic dehydration product resulting from the treatment of Prostaglandin E3 (PGE3) with strong base. In a structure-activity binding study to determine the affinity of various prostaglandins to human PPAR γ , PGB3 exhibited a K_i value greater than 1 mM. In contrast, PGB1 and PGB2 showed significantly higher affinity for PPAR γ , with K_i values of 26 and 77 μ M, respectively, the same assay.

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

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