
Product Data Sheet

Product Name: ethyl 2,5-Dihydroxybenzoate

Cat. No.: GC18230

Chemical Properties

Cas. No. 3943-91-7

Chemical Name 2,5-dihydroxy-benzoic acid, ethyl ester

SMILES OC1=C(C(OCC)=O)C=C(O)C=C1Formula $C_9H_{10}O_4$ M.Wt 182.2

Solubility DMF: 30 mg/ml, DMSO: 20 mg/ml, Ethanol: 30 mg/ml, PBS (pH 7.2): 10 mg/ml 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**

ethyl 2,5-Dihydroxybenzoate is a dual modulator of bone cell differentiation. It promotes osteoblast differentiation, enhancing alkaline phosphatase activity, osteocalcin expression, and calcium deposition in human mesenchymal stem cells. ethyl 2,5-Dihydroxybenzoate also inhibits RANKL-activated osteoclastogenesis in RAW 264.7 cells.

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

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