

Product Data Sheet

Product Name: 2,4'-Dihydroxybenzophenone

Cat. No.: GD08662

Chemical Properties

Cas. No. 131-56-6

SMILES OC1=CC(O)=C(C(C2=CC=CC=C2)=O)C=C1

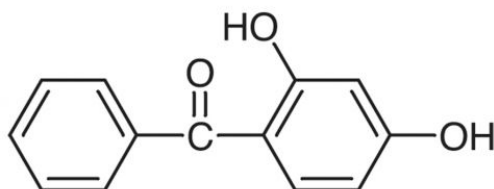
Formula $C_{13}H_{10}O_3$ M.Wt 214.22

Solubility DMSO : 200 mg/mL (933.62 mM; Need ultrasonic) 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

2,4'-Dihydroxybenzophenone (Ultraviolet absorber UV-0) occupies the hydrophobic pocket of MD2 and blocks the dimerization of TLR4. 2,4'-Dihydroxybenzophenone inhibits the LPS induced mtROS production, and LPS induced inflammatory response by downregulating pro-inflammatory mediators and decreasing the expression of MyD88, p-IRAK4, and NF- κ B. 2,4'-Dihydroxybenzophenone is also a UV absorber.

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

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2,4-Dihydroxybenzophenone (6.25-25 μ M) reduces mortality and morphological abnormalities, restores heart rate, and mitigates macrophage and neutrophil recruitment to inflammatory sites in LPS-microinjected zebrafish larvae^[1].

[1]. Kavinda MHD, et al. 2,4'-Dihydroxybenzophenone: A Promising Anti-Inflammatory Agent Targeting Toll-like Receptor 4/Myeloid Differentiation Factor 2-Mediated Mitochondrial Reactive Oxygen Species Production during Lipopolysaccharide-Induced Systemic Inflammation. ACS Pharmacol Transl Sci. 2024 Apr 27;7(5):1320-1334.

[2]. Fang Z, et al. Effect of Substituent Groups on the Strength of Intramolecular Hydrogen Bonds in 2,4-Dihydroxybenzophenone UV Absorbers. Molecules. 2023 Jun 27;28(13):5017.

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