

Product Data Sheet

Product Name: 2,2',4,4'-Tetrahydroxybenzophenone

Cat. No.: GD22546

Chemical Properties

Cas. No. 131-55-5

Formula $C_{13}H_{10}O_5$

M.Wt 246.22

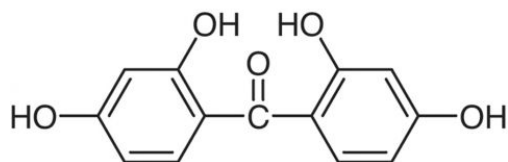
Solubility DMSO : 100 mg/mL(406.14 mM;
Need ultrasonic)

Storage RT, stored under nitrogen

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

Benzophenone-2 (2,2',4,4'-Tetrahydroxybenzophenone) is an organic ultraviolet absorber that is widely used in personal care products and industrial products such as plastics and coatings.

Benzophenone-2 is an endocrine disruptor that can interfere with estrogen receptors (ERα receptor) and pregnane X receptor (PXR receptor) activity, leading to reproductive toxicity, immune disorders, and metabolic abnormalities. Benzophenone-2 can inhibit the activity of α-glucosidase (IC₅₀= 49.72 μM), and can be used for research on diabetes^{[1][2][3]}.

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

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References:

[1].Hu X, et al. Evaluation of polyhydroxybenzophenones as α -glucosidase inhibitors. Arch Pharm (Weinheim). 2011 Feb;344(2):71-7.

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