

4-Butylresorcinol

Catalog No: tcsc7786



Available Sizes

Size: 50mg



Specifications

CAS No:

18979-61-8

Formula:

$C_{10}H_{14}O_2$

Pathway:

Metabolic Enzyme/Protease

Target:

Tyrosinase

Purity / Grade:

>98%

Solubility:

DMSO : 150 mg/mL (902.42 mM; Need ultrasonic and warming)

Alternative Names:

Butylresorcinol

Observed Molecular Weight:

166.22

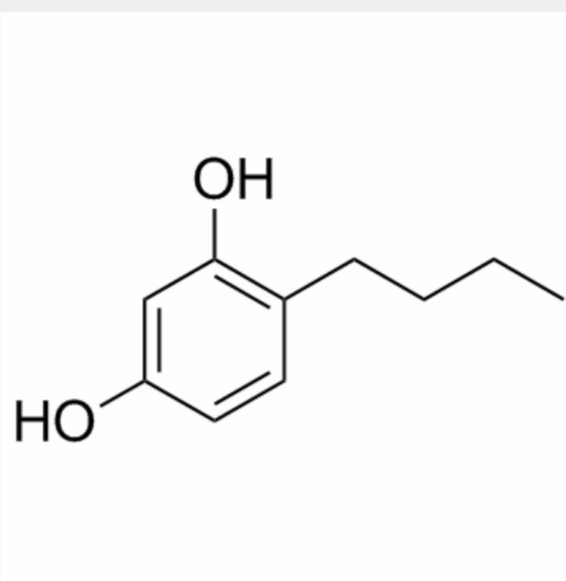
Product Description

4-Butylresorcinol is a phenol derivative which can inhibit **tyrosinase** with **IC₅₀** of 11.27 μM.

IC50 & Target: IC50: 11.27 μM (4-Butylresorcinol)^[1]

In Vitro: It shows that 4-Butylresorcinol (4-n-butylresorcinol) significantly inhibits melanin synthesis in a concentration-dependent

manner. In addition, it is also found to inhibit the activity of tyrosinase, the rate-limiting melanogenic enzyme. 4-Butylresorcinol does not induce ERK, Akt activation, or MITF degradation, and has no effect on cAMP response element binding protein (CREB) phosphorylation, which stimulates MITF expression. 4-Butylresorcinol strongly reduces tyrosinase activity in a cell-free system. Moreover, 4-Butylresorcinol shows an additive effect in combination with hinokitiol, which reduces MITF expression^[2].



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