

Product Data Sheet

Product Name: U-0521
Cat. No.: GC63929

Chemical Properties

Cas. No. 5466-89-7

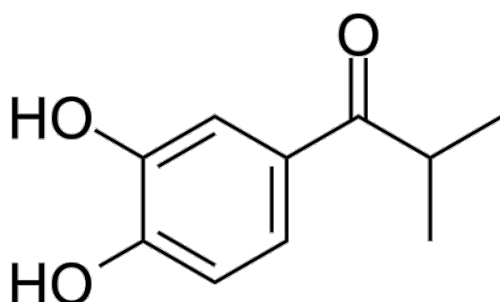
Formula C₁₀H₁₂O₃ M.Wt 180.2

Solubility DMSO : 100 mg/mL (554.94 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

U-0521 is the inhibitor of the catechol-O-methyltransferase (COMT). U-0521 has the potential for the research of Parkinson's disease[1].

U-0521 inhibits RBC COMT activity in a dose-dependent manner with an IC₅₀ of 6 x10⁻⁶ M[1].

U-0521 (i.p.; 0-250 mg/kg; 10 min) inhibits COMT activity in a dose-dependent manner. 50% inhibition of enzyme activity is obtained at 90 mg/kg and maximum inhibition of 90% is obtained at 250 mg/kg[1].

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

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[1]. Reches A, et al. Effect of 3',4'-dihydroxy-2-methyl-propriophenone (U-0521) on catechol-O-methyltransferase activity and on DOPA accumulation in rat red blood cells and corpus striatum. *Biochem Pharmacol.* 1982;31(21):3415-3418.

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