

Product Name: CGP 7930

Catalog No.: 1513

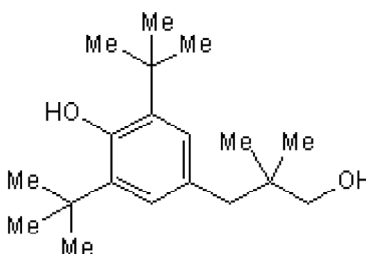
Batch No.: 3

CAS Number: 57717-80-3

IUPAC Name: 3,5-bis(1,1-Dimethylethyl)-4-hydroxy-β,β-dimethyl-benzenepropanol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₃₂O₂
Batch Molecular Weight: 292.46
Physical Appearance: White solid
Solubility: ethanol to 100 mM
DMSO to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.63 (Ethyl acetate:Petroleum ether [25:75])
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	78.03	11.03	
Found	78.16	11.49	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

CGP 7930 is a positive allosteric modulator of GABA_A and GABA_B receptors. Increases the potency and efficacy of GABA at both native and recombinant GABA_B receptors (EC₅₀ values are 5.37 and 4.60 μM respectively) and enhances the inhibitory effect of the agonist L-baclofen in cultured cortical neurons. In HEK-293 cells expressing recombinant GABA_A receptor. CGP 7930 increases the potency and efficacy of GABA (α1β2γ2L: EC₅₀ = 1.7 μM and α4β3δ: EC₅₀ = 1.0 μM). In cultured hippocampal neurons, pre-application of CGP 7930 causes concentration-dependent potentiation of GABA_AR currents by specific type-A recept... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

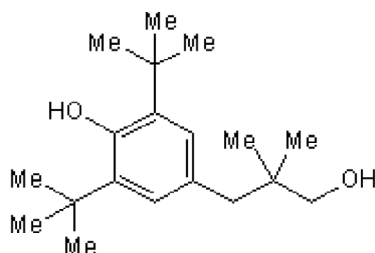
Batch Molecular Formula: C₁₉H₃₂O₂

Batch Molecular Weight: 292.46

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Hannan et al (2023) CGP7930 - An allosteric modulator of GABA_BRs, GABA_ARs and inwardly-rectifying potassium channels. *Neuropharmacology* 109644. PMID: 37422181.

Chen et al (2006) Differential modulation by the GABA_B receptor allosteric potentiator 2,6-Di-*tert*-butyl-4-(3-hydroxy-2,2-dimethylpropyl)-phenol (CGP7930) of synaptic transmission in the rat hippocampal CA1 area. *J.Pharmacol.Exp.Ther.* **317** 1170. PMID: 16507713.

Liang et al (2006) The GABA_B receptor allosteric modulator CGP7930, like baclofen, reduces operant self-administration of ethanol in alcohol-preferring rats. *Neuropharmacology* **50** 632. PMID: 16406445.

Storage: Desiccate at RT

Solubility & Usage Info:

ethanol to 100 mM

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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