
Product Data Sheet

Product Name: Bencianol (ZY15051)

Cat. No.: GC31028

Chemical Properties

Cas. No. 85443-48-7

SMILES O[C@@H]1[C@@H](C2=CC=C(OC(C3=CC=CC=C3)(C4=CC=CC=C4)O5)C5=C2)OC6=CC(O)=CC(O)=C6C1

Formula C₂₈H₂₂O₆ M.Wt 454.47

Solubility Soluble in DMSO 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

Bencianol is a the semisynthetic flavinoid, with anti-spasmogenic activities.

Bencianol causes a dose-related (1-100 µg/mL) reversal of contractions induced by 5-hydroxytryptamine, nor-adrenaline, angiotensin II, prostaglandin F_{2a}, and U-46619 (a thromboxane-A₂ mimetic). Bencianol is more effective against contractions induced by EC₅₀ compared to maximal concentrations of each agent, and is least effective against the thromboxane-A₂ mimetic, U-46619[1]. Bencianol (0.1-100 nM) produces cytoprotective effects against CCl₄ induced cell injury on the above three parameters[2].

[1]. Whalley ET, et al. Anti-spasmogenic effects of bencianol (ZY15051) on human cerebral arteries in vitro. Cephalalgia. 1985 Dec;5(4):217-21. [2]. Maignan MF, et al. Cytoprotective effects of Bencianol on porcine vascular endothelial cells in vitro. J Submicrosc Cytol. 1986 Jan;18(1):47-51.

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

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