
Product Data Sheet

Product Name: Diapocynin

Cat. No.: GC18517

Chemical Properties

Cas. No. 29799-22-2

Chemical Name 1,1'-(6,6'-dihydroxy-5,5'-dimethoxy[1,1'-biphenyl]-3,3'-diyl)bis-ethanone

SMILES OC1=C(C2=C(O)C(OC)=CC(C(C)=O)=C2)C=C(C(C)=O)C=C1OCFormula $C_{18}H_{18}O_6$ M.Wt 330.3Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO:PBS (pH 7.2) (1:1):
0.5 mg/ml, Ethanol: 20 mg/ml Storage 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**

Diapocynin is the dimeric form of the NADPH oxidase inhibitor apocynin that has anti-inflammatory and antioxidant activities. Diapocynin inhibits NADPH oxidase complex assembly and activation, gp91phox mRNA expression, and production of the pro-inflammatory cytokines TNF- α and IL-10 in peripheral blood mononuclear cells (PMBCs). It inhibits production of reactive oxygen species (ROS), calcium-independent isoform of phospholipase A2 (iPLA2) function, and reduces Ca²⁺ influx through store-operated and stretch-activated channels (SOCs and SACs, respectively) in dystrophic myotubes; all functions in the pathogenic cascade leading to muscular dystrophy. Diapocynin also reverses motor coordination deficits in the LRRK2R1441G mouse model of early Parkinson's disease.

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

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