

Product Data Sheet

Product Name: Gallocyanine

Cat. No.: GC43725

Chemical Properties

Cas. No. 1562-85-2

SMILES OC(C1=CC(O)=C(O)C2=[O+]C3=CC(N(C)C)=CC=C3N=C21)=O.[Cl-]

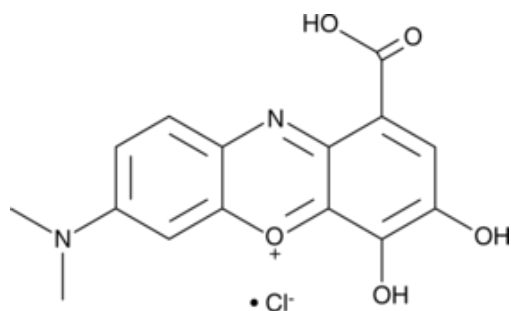
Formula C₁₅H₁₃N₂O₅•Cl M.Wt 336.7

Solubility DMSO 74 mg/mL (219.76 mM) 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

Gallocyanine is a small molecule blue dye used to stain nuclei. It is known to inhibit Dickkopf-1 (Dkk1), an antagonist of the Wnt pathway. Gallocyanine can disrupt the interaction of Dkk1 with its receptor LRP5/6 (IC₅₀ = 3 μM), thereby activating Wnt/β-catenin signaling. Modulation of the Dkk1-LRP5/6 interaction via gallocyanine has been shown to inhibit prostaglandin J2-induced tau phosphorylation at serine396 in primary cortical neurons in vitro.

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

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