
Product Data Sheet

Product Name: Obtusin
Cat. No.: GC39018

Chemical Properties

Cas. No. 70588-05-5

SMILES O=C1C2=C(C=C(C)C(O)=C2OC)C(C3=CC(OC)=C(OC)C(O)=C13)=O

Formula $C_{18}H_{16}O_7$ M.Wt 344.32

Solubility Soluble in DMSO Storage Store at $-20^{\circ}C$, protect from light

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

Obtusin, isolated from *Cassia obtusifolia* Linn seed, is a highly selective and competitive human monoamine oxidase-A (hMAO-A) inhibitor with an IC_{50} of $11.12 \mu M$ and a K_i of 6.15 . Obtusin plays a preventive role in neurodegenerative diseases, especially anxiety and depression[1].

[1]. Paudel P, et al. In Vitro and in Silico Human Monoamine Oxidase Inhibitory Potential of Anthraquinones, Naphthopyrones, and Naphthalenic Lactones from *Cassia obtusifolia* Linn Seeds. *ACS Omega*. 2019 Sep 18;4(14):16139-16152.

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

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