

Product Data Sheet

Product Name: 5-hydroxy Isatin

Cat. No.: GC52106

Chemical Properties

Cas. No. 116569-09-6

SMILES O=C1NC2=CC=C(C=C2C1=O)O

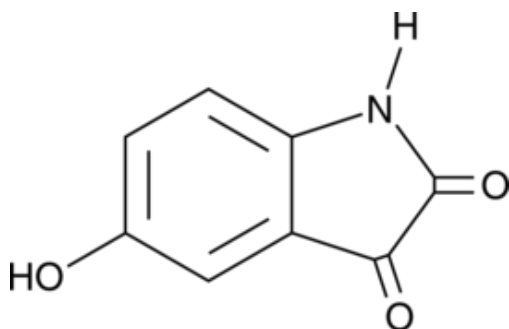
Formula C8H5NO3 M.Wt 163.1

Solubility DMF: 3 mg/ml, DMSO: 5 mg/ml, Ethanol: insol, PBS (pH 7.2): insol
Storage -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

5-hydroxy Isatin is an inhibitor of monoamine oxidase A (MAO-A; $IC_{50} = 8.4 \mu M$).¹ It is selective for MAO-A over MAO-B ($IC_{50} = >100 \mu M$). 5-hydroxy Isatin (50 μM) also inhibits atrial natriuretic

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

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peptide-induced activation of particulate guanylyl cyclase in rat brain and heart membranes.²

1. Medvedev, A.E., Goodwin, B., Chow, A., et al. Inhibitory potency of some isatin analogues on human monoamine oxidase A and B. *Biochem. Pharmacol.* 44(3):590-592 (1992)

2. Medvedev, A.E., Goodwin, B.L., Sandler, M., et al. Efficacy of isatin analogues as antagonists of rat brain and heart atrial natriuretic peptide receptors coupled to particulate guanylyl cyclase. *Biochem. Pharmacol.* 57(8):913-915 (1999)

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