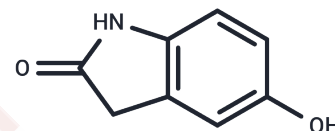


## 5-Hydroxyoxindole

## Chemical Properties

CAS No. :	3416-18-0
Formula:	C <sub>8</sub> H <sub>7</sub> NO <sub>2</sub>
Molecular Weight:	149.15
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	5-Hydroxyoxindole has been identified as a urinary metabolite of indole, which is produced from tryptophane via the tryptophanase activity of gut bacteria [1]. 5-Hydroxyoxindole has lipid peroxidation inhibition activity and free radical DPPH scavenging
Targets(IC50)	Reactive Oxygen Species
In vitro	5-Hydroxyoxindole was less potent MAO-A inhibitor (IC <sub>50</sub> 56.8 microM) than isatin (31.8 microM) and especially 5-hydroxyisatin (6.5 microM), but it was the only highly selective MAO-A inhibitor among the all compounds studied (IC <sub>50</sub> MAO-A:IC <sub>50</sub> MAO-B = 0.044) [1].
In vivo	In blood plasma, 5-hydroxyoxindole levels were quite stable [2]. The maximal 5-hydroxyoxindole concentration in plasma was: 5.4 nM (5-hydroxyoxindole molecular weight: 149) [2].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.7047 mL	33.5233 mL	67.0466 mL
5 mM	1.3409 mL	6.7047 mL	13.4093 mL
10 mM	0.6705 mL	3.3523 mL	6.7047 mL
50 mM	0.1341 mL	0.6705 mL	1.3409 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Michèle Crumeyrolle-Arias, et al. Inhibition of brain mitochondrial monoamine oxidases by the endogenous compound 5-hydroxyoxindole. *Biochem Pharmacol.* 2004 Mar 1;67(5):977-9.

Daisuke Yasuda, et al. Preparation and antioxidant/pro-oxidant activities of 3-monosubstituted 5-hydroxyoxindole derivatives. *J Clin Biochem Nutr.* 2016 Nov;59(3):165-173.

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