

6-Hydroxy Chlorzoxazone

Chemical Properties

CAS No. :	1750-45-4
Formula:	C7H4ClNO3
Molecular Weight:	185.56
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	6-Hydroxy Chlorzoxazone is the major metabolite of the muscle relaxant chlorzoxazone. 6-Hydroxy Chlorzoxazone is a chlorinated benzoxazolone generated by metabolism via the CYP2E1 enzyme in the liver. 6-Hydroxy Chlorzoxazone serves as a reliable marker for assessing CYP2E1 metabolic activity and is used as a reference standard in biochemical research.
Targets(IC50)	Others,Drug Metabolite
In vitro	6-Hydroxy Chlorzoxazone can be used as a metabolite of Chlorzoxazone detectable by HPLC-UV for the in vitro assay of recombinant human CYP2E1 enzyme activity [2].

Solubility Information

Solubility	DMSO: 80 mg/mL (431.13 mM),Sonication is recommended. Methanol: Slightly Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.3891 mL	26.9455 mL	53.8909 mL
5 mM	1.0778 mL	5.3891 mL	10.7782 mL
10 mM	0.5389 mL	2.6945 mL	5.3891 mL
50 mM	0.1078 mL	0.5389 mL	1.0778 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

Court, M.H., et al. Biotransformation of chlorzoxazone by hepatic microsomes from humans and ten other mammalian species. *Biopharm. Drug Dispos.* 18(3), 213-226 (1997).

Elbarbry F, et al. Studying the Inhibitory Effect of Quercetin and Thymoquinone on Human Cytochrome P450 Enzyme Activities. *Pharmacogn Mag.* 2018;13(Suppl 4):S895-S899.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481