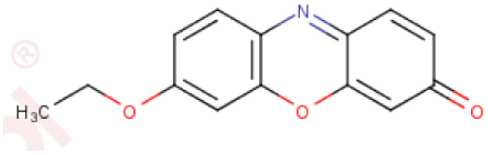
7-Ethoxyresorufin

Cat#: orb1306322 (User Manual)

Chemical Properties

CAS No. : 5725-91-7
Formula： C14H11NO3
Molecular Weight： 241.25
Appearance： no data available
Storage: Powder: -20°C for 3 years
In solvent: -80°C for 2 years



Biological Description

Description 7-Ethoxyresorufin (7-ER) is a fluorometric substrate for and competitive inhibitor of cytochrome P450, especially CYP1A1.
Targets (IC50) NO Synthase, P450
In vivo 7-ER inhibited responses to NO and nitrergic nerve stimulation through generation of superoxide radicals. A 7-ER sensitive P450 system may be involved in the bioactivation of GTN and SNP in rat aortic rings, but not in rabbit aorta or rat anococcygeus muscles.

Solubility Information

Solubility DMF: 1.92 mg/mL (8 mM)(1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1451	20.7254	41.4508
5 mM	0.829	4.1451	8.2902
10 mM	0.4145	2.0725	4.1451
50 mM	0.0829	0.4145	0.829

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.

Reference

C G Li, et al. Inhibition of NO-medicate responses by 7-ethoxyresorufin, a substrate and competitive inhibitor of cytochrome P450. Br J Pharmacol. 1996 May;118(1):57-62.Thomas K H Chang, et al. Enzymatic analysis of cDNAexpressed human CYP1A1, CYP1A2, and CYP1B1 with 7-ethoxyresorufin as substrate. Methods Mol Biol. 2006;320: