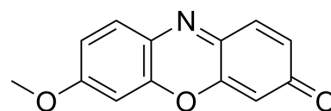


Resorufin methyl ether

Cat. No.:	HY-D0144
CAS No.:	5725-89-3
Molecular Formula:	C ₁₃ H ₉ NO ₃
Molecular Weight:	227.22
Target:	Cytochrome P450
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMF : 3.33 mg/mL (14.66 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.4010 mL	22.0051 mL	44.0102 mL
	5 mM	0.8802 mL	4.4010 mL	8.8020 mL
	10 mM	0.4401 mL	2.2005 mL	4.4010 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Resorufin methyl ether (Methoxyresorufin) is a cytochrome P450 fluorometric substrate^[1]. Resorufin methyl ether is a relatively specific substrate for CYP1A2 activity in rodents^{[1][2]}.

IC₅₀ & Target

CYP1

REFERENCES

[1]. P.V Nerurkar, et al. Methoxyresorufin and benzyloxyresorufin: substrates preferentially metabolized by cytochromes P4501A2 and 2B, respectively, in the rat and mouse. *Biochem Pharmacol.* 1993 Sep 1;46(5):933-43.

[2]. Hansen Murcia, et al. Study on the inhibitory effect of furafylline and troleanomycin in the 7-methoxyresorufin-O-demethylase and nifedipine oxidase activities in hepatic microsomes from four poultry species using high-performance liquid chromatography coupled with fluorescence and ultraviolet detection. *J Pharm Biomed Anal.* 2019 Feb 5;164:148-154.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA