

Product Data Sheet

Product Name: 7-Ethoxycoumarin

Cat. No.: GC49030

Chemical Properties

Cas. No. 31005-02-4

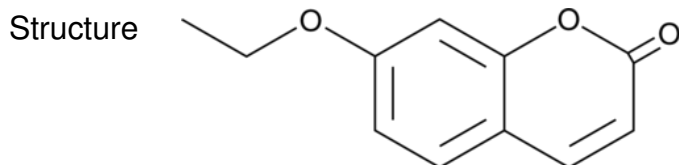
SMILES O=C1C=CC2=CC=C(OCC)C=C2O1

Formula C₁₁H₁₀O₃ M.Wt 190.2

Solubility DMF: 30 mg/ml, DMF:PBS (pH 7.2) Storage -20°C
(1:1): 0.50 mg/ml, DMSO: 15 mg/ml

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.



Background

7-Ethoxycoumarin is a substrate for cytochrome P450 (CYP).¹ It undergoes O-deethylation by various CYP isoforms, including CYP1A1, -1A2, and -2B in mice and CYP2E1 in humans. 7-Ethoxycoumarin has been used in the functional characterization of CYPs in cats, rats, and isolated human cornea.^{2,3,4}

1. Okamatsu, G., Komatsu, T., Kubota, A., et al. Identification and functional characterization of novel feline cytochrome P450 2AXenobiotica 45(6)503-510(2015)
2. Kajbaf, M., Ricci, R., Zamboni, S., et al. Contribution of rat intestinal metabolism to the xenobiotics clearance Eur. J. Drug Metab. Pharmacokinet. 38(1)33-41(2013)
3. Kölln, C., and Reichl, S. Cytochrome P450 activity in ex vivo

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

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cornea models and a human cornea construct. J. Pharm. Sci. 105(7):2204-2212(2016)

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