Data Sheet (Cat.No.T37926)

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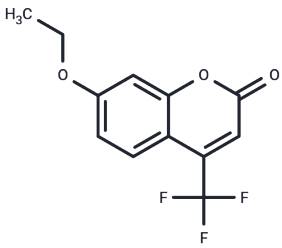
7-Ethoxy-4-(trifluoromethyl)coumarin

Chemical Properties



CAS No. : 115453-82-2

Formula: C12H9F3O3

Molecular Weight: 258.19

Appearance: no data available

Storage: keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	7-Ethoxy-5-(trifluoromethyl)coumarin is a fluorogenic substrate for cytochrome P450s (CYPs).1Upon O-deethylation by CYPs, 7-hydroxy-4-(trifluoromethyl)coumarin (HFC) is released and its fluorescence can be used to quantify CYP activity. HFC displays excitation/emission maxima of 410/510 nm, respectively.

Solubility Information

Solubility	Methanol: Slightly soluble Chloroform: Slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8731 mL	19.3656 mL	38.7312 mL
5 mM	0.7746 mL	3.8731 mL	7.7462 mL
10 mM	0.3873 mL	1.9366 mL	3.8731 mL
50 mM	0.0775 mL	0.3873 mL	0.7746 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.

Reference

Buters, J.T.M., Schiller, C.D., and Chou, R.C.A highly sensitive tool for the assay of cytochrome P450 enzyme activity in rat, dog and man. Direct fluorescence monitoring of the deethylation of 7-ethoxy-4-

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