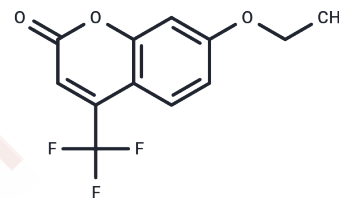


## 7-Ethoxy-4-(trifluoromethyl)coumarin

## Chemical Properties

CAS No. :	115453-82-2
Formula:	C12H9F3O3
Molecular Weight:	258.19
Storage:	Keep away from direct sunlight Store at -20°C

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	7-Ethoxy-4-(trifluoromethyl)coumarin is a substrate for Cytochrome P450 enzyme and is involved in metabolism in the body, and is capable of generating fluorescent signals with an excitation wavelength of 410 nm and an emission wavelength of 510 nm.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 40 mg/mL (154.92 mM),Sonication is recommended. Methanol: < 1 mg/mL (insoluble or slightly soluble) Chloroform: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1.5 mg/mL (5.81 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
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

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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

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-trifluoromethylcoumarin *Biochem. Pharmacol.* 46(9)1577-1584(1993)

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