Product name: 3-Cyano-7-ethoxycoumarin, Fluorogenic cytochrome P450 monooxygenase substrate

Description: Fluorogenic cytochrome P450 mixed-function monooxygenase substrate.

Biological description: Fluorescent cytochrome P450 mixed-function monooxygenase substrate. Metabolized to the fluorescent compound 3-cyano-7-hydroxycoumarin. About 50-100 times more sensitive than conventional substrate ethoxy-resorufin due to higher turnover rate.

Purity: > 99%

General notes: Fluorescence: λex 324 nm; λem 414 nm in DMSO.

CAS Number: 117620-77-6

Chemical structure:

Properties:

Excitation: 324nm

Emission: 414nm

Molecular weight: 215.20

Molecular formula: C_{12}H_{9}NO_{3}

Storage instructions: Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.

Solubility overview: Soluble in DMSO

Handling: Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

Source: Synthetic
Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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