

Product Data Sheet

Product Name: Coumarin hydrazine

Cat. No.: GC40950

Chemical Properties

Cas. No. 113707-87-2

SMILES O=C(C=C1C)OC2=C1C=CC(NN)=C2

Formula C₁₀H₁₀N₂O₂

M.Wt 190.2

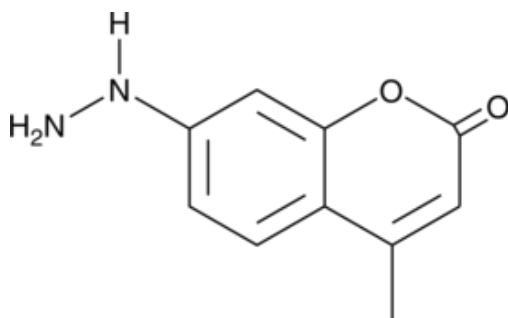
Solubility DMF: 14 mg/ ml, DMF:PBS(pH 7.2) (1:1): 0.5 mg/ml, DMSO: 10 mg/ml, Ethanol: 1 mg/ml

Storage Store at -20°C

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.

Structure



Background

Coumarin hydrazine is an aromatic hydrazine-containing fluorophore that reacts with aldehydes or ketones for fluorescent labeling. At neutral pH, coumarin hydrazine reacts faster with aldehydes than coumarin hydrazide to form hydrazones. Coumarin hydrazine acts as a fluorogenic sensor in live cells to detect carbonylated biomolecules that occur following oxidative stress. It displays an excitation maximum of 365 nm, produces a red shift in emission from approximately 430-550 nm upon hydrazone formation, and displays a large Stokes shift of approximately 195 nm.

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

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