

Product Data Sheet

Product Name: Epoxy Fluor 7

Cat. No.: GC43621

Chemical Properties

Cas. No. 863223-43-2

SMILES COc1ccc2cc(ccc2c1)C(C#N)OC(=O)OCC1OC1c1ccccc1

Formula C₂₃H₁₉NO₅

M.Wt 389.4

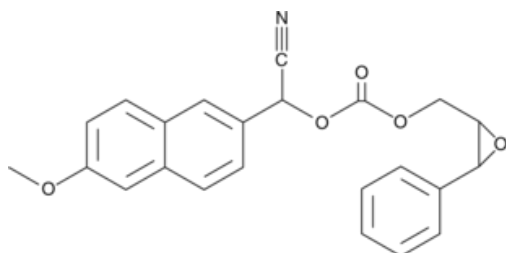
Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, Ethanol: 5 mg/ml

Storage Store at -20°C, protect from light

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

Soluble epoxide hydrolase (sEH) catalyzes the conversion of epoxyeicosatrienoic acids (EpETrEs) to the corresponding DiHETrEs thereby diminishing their vasodilator activity. Inhibitors of sEH may therefore have clinical utility for treating hypertension and systemic inflammation. Epoxy fluor 7 is a sensitive fluorescent substrate for soluble epoxide hydrolase (sEH) that can be used to monitor the activity of both human and mouse enzymes. Hydrolysis of the substrate epoxide yields a highly fluorescent product that can be monitored at excitation and emission wavelengths of 330 and 465 nm, respectively. Epoxy fluor 7 is more stable in aqueous solution and offers about 2-fold better sensitivity than previously used colorimetric substrates such as NEPC.

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

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