

Product Data Sheet

Product Name: CAY10731

Cat. No.: GC43205

Chemical Properties

Cas. No. 2119597-33-8

Chemical Name carbonic acid, 2-bromoethyl 6'-methoxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3'-yl ester

SMILES COC(C=C1)=CC2=C1C3(C(C=CC=C4)=C4C(O3)=O)C(C=CC(OC(OCCBr)=O)=C5)=C5O2

Formula C₂₄H₁₇BrO₇

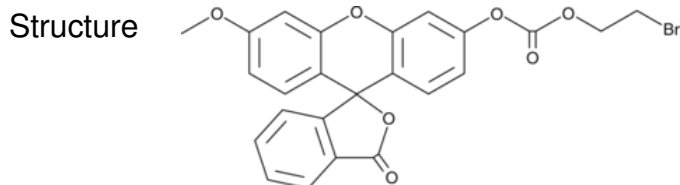
M.Wt 497.3

Solubility 30mg/mL in DMSO, or in DMF

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.



Background

CAY10731 is a fluorescent probe for hydrogen sulfide (H₂S).[1] Upon reaction with H₂S, fluorescein (FITC) is released and its fluorescence can be used to detect H₂S. FITC displays excitation/emission maxima of 485/535 nm, respectively. CAY10731 is selective for H₂S over glutathione (GSH), cysteine, H₂O₃⁻, SO₃⁻, and H₂O₂ as well as tBuO and OH radicals. It has been used to detect H₂S in rat hippocampal slices and nematodes.

Reference:

[1]. Reja, S.I., Sharma, N., Gupta, M., et al. A highly selective fluorescent probe for detection of hydrogen sulfide in living systems: In vitro and in vivo applications. Chemistry 23(41), 9872-9878 (2017).

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

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