

Product Data Sheet

Product Name: 8-Hydroxyjulolidine-9-carboxaldehyde

Cat. No.: GD14406

Chemical Properties

Cas. No. 63149-33-7

Formula $C_{13}H_{15}NO_2$ M.Wt 217.26

Solubility DMSO : 50 mg/mL(230.14 mM; Need Storage 4°C, stored under nitrogen ultrasonic)

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.

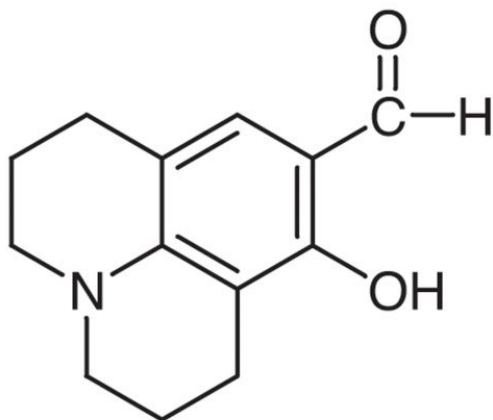
Caution: Product has not been fully validated for medical applications. For research use only.

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Structure



Background

8-Hydroxyjulolidine-9-carboxaldehyde (9-Formyl-8-hydroxyjulolidine) is a highly selective fluorescent probe for hydrogen sulfide (S^{2-}) and silicate (SiO_3^{2-}). 8-Hydroxyjulolidine-9-carboxaldehyde operates via a mechanism of blocking intramolecular charge transfer (ICT), exhibiting significant fluorescence enhancement in the presence of weak acid ions. 8-Hydroxyjulolidine-9-carboxaldehyde is promising for research of fluorescence imaging of hydrogen sulfide within living cells^[1].

References:

[1]. Yang Y, et al. pH-sensitive fluorescent salicylaldehyde derivative for selective imaging of hydrogen sulfide in living cells[J]. Sensors and Actuators B: Chemical, 2013, 186: 212-218.

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