Product Data Sheet

Product Name: Resorufin sodium salt (NSC 12097 sodium salt)
Cat. No.: GC33591

Chemical Properties

Cas. No.	34994-50-8		
SMILES	O=C1C=CC2=NC3=C(OC2=C1)C=C(C=C3)O[Na]		
Formula	$C_{12}H_6NNaO_3$	M.Wt	235.17
Solubility	Water : 10 mg/mL	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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

Resorufin is a fluorescent probe and the reduced form of the redox indicator dye resazurin .[1] It can be further reduced to hydroresorufin, which is non-fluorescent. Resorufin has been used in the synthesis of resorufin-based fluorescent probes.[2,3] It has also been used for the direct measurement of solvent-solute hydrogen bond dynamics with distinct absorption and emission peaks in solvents with strong hydrogen bonds and overlapping peaks in solvents with weak hydrogen bonds.[4] It displays excitation/emission maxima of 570/580 nm, respectively.

1.O'Brien, J., Wilson, I., Orton, T., et al.Investigation of the Alamar Blue (resazurin) fluorescent dye for the assessment of mammalian cell cytotoxicityEur. J. Biochem.267(17)5421-5426(2000) 2.Mayer, R.T., Jermyn, J.W., Burke, M.D., et al.Methoxyresorufin as a substrate for the fluorometric assay of insect microsomal O-dealkylasesPestic. Biochem. Physiol.7(4)349-354(1977) 3.Yoon, J.W., Kim, S., Yoon, Y., et al.A resorufin-based fluorescent turn-on probe responsive to nitroreductase activity and its application to bacterial detectionDyes Pigm.171107779(2019) 4.Yu, J., and Berg, M.Resorufin as a probe for the dynamics of solvation by hydrogen bondingChem. Phys.

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