

References for Product 65

1. Rankouhi TR, Koomen B, Sanderson JT, Bosveld AT, Seinen W, van den Berg M. (2005) Induction of ethoxy-resorufin-O-deethylase activity by halogenated aromatic hydrocarbons and polycyclic aromatic hydrocarbons in primary hepatocytes of the green frog (*Rana esculenta*). *Environ Toxicol Chem*, 24, 1428.
2. Jenkins AT, Dash HA, Boundy S, Halliwell CM, ffrench-Constant RH. (2006) Methoxy-resorufin ether as an electrochemically active biological probe for cytochrome P450 O-demethylation. *Bioelectrochemistry*, 68, 67.
3. Graca R, Messick J, McCullough S, Barger A, Hoffmann W. (2005) Validation and diagnostic efficacy of a lipase assay using the substrate 1,2-o-dilauryl-rac-glycero glutaric acid-(6' methyl resorufin)-ester for the diagnosis of acute pancreatitis in dogs. *Vet Clin Pathol*, 34, 39.
4. Lewis DF, Lake BG, Dickins M. (2004) Quantitative structure-activity relationships within a homologous series of 7-alkoxyresorufins exhibiting activity towards CYP1A and CYP2B enzymes: molecular modelling studies on key members of the resorufin series with CYP2C5-derived models of human CYP1A1, CYP1A2, CYP2B6 and CYP3A4. *Xenobiotica*, 34, 501.
5. Sato H, Kusel JR, Thornhill J. (2002) Functional visualization of the excretory system of adult *Schistosoma mansoni* by the fluorescent marker resorufin. *Parasitology*, 125, 527.
6. Bueno C, Villegas ML, Bertolotti SG, Previtali CM, Neumann MG, Encinas MV. (2002) The excited-state interaction of resazurin and resorufin with amines in aqueous solutions. Photophysics and photochemical reactions. *Photochem Photobiol*, 76, 385.
7. Batchelor RH, Zhou M. (2002) A resorufin-based fluorescent assay for quantifying NADH. *Anal Biochem*, 305, 118.
8. Maeda H, Matsu-ura S, Nishida M, Senba T, Yamauchi Y, Ohmori H. (2001) Hydrogen peroxide-induced deacetylation of acetyl resorufin as a novel indicator reaction for fluorometric detection of glucose using only glucose oxidase. *Chem Pharm Bull (Tokyo)*, 49, 294.
9. Maeda H, Matsu-ura S, Senba T, Yamasaki S, Takai H, Yamauchi Y, Ohmori H. (2000) Resorufin as an electron acceptor in glucose oxidase-catalyzed oxidation of glucose. *Chem Pharm Bull (Tokyo)*, 48, 897.
10. Eggertson MJ, Craig DB. (1999) beta-galactosidase assay using capillary electrophoresis laser-induced fluorescence detection and resorufin-beta-D-galactopyranoside as substrate. *Biomed Chromatogr*, 13, 516.
11. Henke E, Bornscheuer UT. (1999) Directed evolution of an esterase from *Pseudomonas fluorescens*. Random mutagenesis by error-prone PCR or a mutator strain and identification of mutants showing enhanced enantioselectivity by a resorufin-based fluorescence assay. *Biol Chem*, 380, 1029.
12. Kitson TM. (1998) Studies on the chymotrypsin-catalysed hydrolysis of resorufin acetate and resorufin bromoacetate. *Biochim Biophys Acta*, 1385, 43.
13. Zhou M, Diwu Z, Panchuk-Voloshina N, Haugland RP. (1997) A stable nonfluorescent derivative of resorufin for the fluorometric determination of trace hydrogen peroxide: applications in detecting the activity of phagocyte NADPH oxidase and other oxidases. *Anal Biochem*, 253, 162.
14. Tortorella MD, Arner EC. (1997) A high-throughput assay for stromelysin using a casein-resorufin substrate. *Inflamm Res*, 46 Suppl 2, S122.
15. Kitson TM, Kitson KE. (1997) Studies of the esterase activity of cytosolic aldehyde dehydrogenase with resorufin acetate as substrate. *Biochem J*, 322 (Pt 3), 701.
16. Kitson TM, Kitson KE. (1997) The action of cytosolic aldehyde dehydrogenase on resorufin acetate. *Adv Exp Med Biol*, 414, 201.
17. Heinonen JT, Sidhu JS, Reilly MT, Farin FM, Omiecinski CJ, Eaton DL, Kavanagh TJ. (1996) Assessment of regional cytochrome P450 activities in rat liver slices using resorufin substrates and fluorescence confocal laser cytometry. *Environ Health Perspect*, 104, 536.

18. Bourgerie S, Karamanos Y, Berger S, Julien R. (1992) Use of resorufin-labelled N-glycopeptide in a high-performance liquid chromatography assay to monitor endoglycosidase activities during cultivation of *Flavobacterium meningosepticum*. *Glycoconj J*, 9, 162.
19. Oldfield NF, Mortillo M, Garland WA, Mico BA. (1992) Inhibition of hepatic and cutaneous biotransformation of resorufin ethers following intraperitoneal administration of 1-aminobenzotriazole. *Pharm Res*, 9, 1099.
20. Balvers WG, Boersma MG, Vervoort J, Rietjens IM. (1992) Experimental and theoretical study on the redox cycling of resorufin by solubilized and membrane-bound NADPH-cytochrome reductase. *Chem Res Toxicol*, 5, 268.
21. Elangbam CS, Qualls CW, Jr., Lochmiller RL. (1991) O-dealkylation of resorufin ethers as an indicator of hepatic cytochrome P-450 isoenzyme induction in the cotton rat (*Sigmodon hispidus*): a method for monitoring environmental contamination. *Bull Environ Contam Toxicol*, 47, 23.
22. Root LJ, Stillinger FH. (1990) Molecular-dynamics computer simulation applied to nonphotochemical hole-burning processes: Resorufin in glycerol. *Physical Review. B. Condensed Matter.*, 41, 2348.
23. Siess MH, Pennec A, Gaydou E. (1989) Inhibition of ethoxy- and pentoxy-resorufin dealkylases of rat liver by flavones and flavonols: structure-activity relationship. *Eur J Drug Metab Pharmacokinet*, 14, 235.
24. Dutton DR, Reed GA, Parkinson A. (1989) Redox cycling of resorufin catalyzed by rat liver microsomal NADPH-cytochrome P450 reductase. *Arch Biochem Biophys*, 268, 605.
25. Addison RF, Sadler MC, Lubet RA. (1987) Absence of hepatic microsomal pentyl- or benzyl-resorufin O-dealkylase induction in rainbow trout (*Salmo gairdneri*) treated with phenobarbitone. *Biochem Pharmacol*, 36, 1183.
26. Rettie AE, Williams FM, Rawlins MD, Mayer RT, Burke MD. (1986) Major differences between lung, skin and liver in the microsomal metabolism of homologous series of resorufin and coumarin ethers. *Biochem Pharmacol*, 35, 3495.
27. Jablonski JE, Sullivan PD. (1986) Resorufin inhibits the in vitro metabolism and mutagenesis of benzo(a)pyrene. *Biochem Biophys Res Commun*, 136, 555.
28. Nims RW, Prough RA, Lubet RA. (1984) Cytosol-mediated reduction of resorufin: a method for measuring quinone oxidoreductase. *Arch Biochem Biophys*, 229, 459.
29. Nims RW, Lubet RA. (1983) Cytosol-mediated reduction of resorufin fluorescence: effects on the ethoxyresorufin O-deethylase (ETR) assay. *Biochem Pharmacol*, 32, 175.
30. Guilbault GG. (1975) Fluorometric determination of dehydrogenase activity using resorufin. *Methods Enzymol*, 41, 53.
31. Guilbault GG, Kramer DN. (1965) Resorufin Butyrate and Indoxyl Acetate as Fluorogenic Substrates for Cholinesterase. *Anal Chem*, 37, 120.
32. De BR, de SG. (1951) On the mechanism of enzyme action. XLIV. Codetermination of resazurin and resorufin in enzymatic dehydrogenation experiments. *Arch Biochem*, 31, 300.