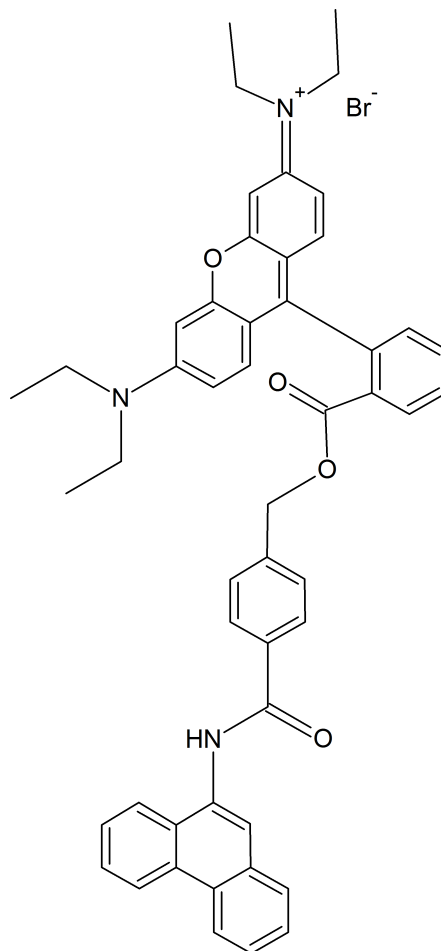


PRODUCT INFORMATION

ME046.1 (1 mg)
ME046.2 (5 mg)

Product Name: Rhodamine B[(phenanthren-9-yl)aminocarbonyl]-benzylester (RPAC)



Product Specifications

catalogue no.:	ME046
chemical name:	Rhodamine B[(phenanthren-9-yl)aminocarbonyl]benzylester (RPAC)
synonyms:	RPAC
IUPAC name:	6(diethylamino)N,N-diethyl-9[2({[4(phenanthren-9-ylcarbamoyl)benzyl]oxy}-carbonyl)phenyl]3H-xanthen-3-iminium bromide
molecular formula:	$C_{50}H_{46}BrN_3O_4$
molecular weight [g/mol]:	832.8219 (752.9174+79.9045)
CAS:	[-]
purity:	97%+
category:	Medchem Compounds
melting point:	n.d.
boiling point:	n.d.
appearance:	purple solid
solubility:	DMSO

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long term storage: +4°C, stored dry and protect from light
 NMR analytics: 500 MHz (CDCl₃)

Safety Information

R-Sentence: R: 36/37/38
 S-Sentence: S: 26-24/25
 hazardous substance symbol: Xn
 safety info: Caution, substance not fully tested. Potential health effects.

References

1. Selective determination of mitochondrial chelatable iron in viable cells with a new fluorescent sensor. F. Petrat et. al. *Biochem. J.* (2002) 362, 137-147
2. Cold-induced apoptosis of hepatocytes: mitochondrial permeability transition triggered by nonmitochondrial chelatable iron; U. Rauen et al. *Free Radical Biology & Medicine*, Vol. 35, No. 12, pp. 1664-1678, 2003
3. The chelatable iron pool in living cells: A methodically defined quantity. F. Petrat et. al. *Biol. Chem.*, Vol. 383, pp. 489-502, 2002
4. Assessment of chelatable mitochondrial iron by using mitochondrion-selective fluorescent iron indicators with different iron-binding affinities. U. Rauen et al. *ChemBioChem* 2007, 8, 341-352
5. Oxidative inactivation of mitochondrial Aconitase results in iron and hydrogen peroxide-mediated neurotoxicity in rat primary mesencephalic cultures. David Cantu et. al. *PlosOne*, September 2009, Vol 4, Issue 9, p 1-9

Application Notes

RPAC is used in the same manner as RPA. 1-5 mM stock solutions of RPAC in DMSO can be prepared and aliquots should be kept at -20°C. When stored properly at -20°C, the frozen aliquots are stable and can be used for at least 2-3 months.

Ordering Information

Cat. No.	Product Name	Quantity	Price
ME046.1	6(diethylamino)N,N-diethyl-9[2({[4(phenanthren-9-ylcarbamoyl)-benzyl]oxy}carbonyl)phenyl]3H-xanthen-3-iminium bromide	1 mg	309,- €
ME046.2	6(diethylamino)N,N-diethyl-9[2({[4(phenanthren-9-ylcarbamoyl)-benzyl]oxy}carbonyl)phenyl]3H-xanthen-3-iminium bromide	5 mg	725,- €