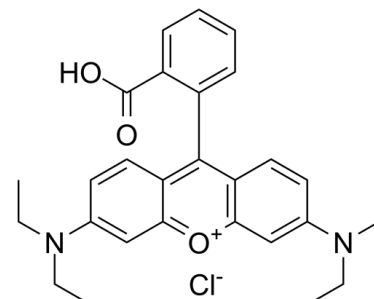


Data Sheet

Product Name:	Rhodamine B
Cat. No.:	CS-7637
CAS No.:	81-88-9
Molecular Formula:	C ₂₈ H ₃₁ ClN ₂ O ₃
Molecular Weight:	479.01
Target:	Others
Pathway:	Others
Solubility:	DMSO : 6 mg/mL (12.53 mM; Need ultrasonic and warming)



BIOLOGICAL ACTIVITY:

Rhodamine B is a staining fluorescent dye, commonly used for dyeing textiles, paper, soap, leather, and drugs. **In Vitro:** Rhodamine B induces a concentration-dependent reduction of root meristem cells of *A. cepa*. mitotic activity. Rhodamine B induces various nuclear aberrations in *A. cepa*. root cells. In the 100 and 200 ppm rhodamine B groups, the frequencies of NBUDs and BN surpass those of the positive control (MMS) group. Rhodamine B-induced changes of H₂O₂ (a) and MDA (b) level increase in a concentration-dependent manner in *A. cepa*. roots^[1].

References:

[1]. Tan D, et al. Rhodamine B induces long nucleoplasmic bridges and other nuclear anomalies in *Allium cepa* root tip cells. *Environ Sci Pollut Res Int.* 2014 Mar;21(5):3363-70.

CAIndexNames:

Xanthylium, 9-(2-carboxyphenyl)-3,6-bis(diethylamino)-, chloride (1:1)

SMILES:

CCN(C1=CC2=[O+]C3=C(C=CC(N(CC)CC)=C3)C(C4=CC=CC=C4C(O)=O)=C2C=C1)CC.[Cl-]

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

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