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DATASHEET

Nile Red

Product overview

Name	Nile Red
Cat No	HB0810
Alternative names	Nile blue A oxazone
Biological description	Photostable polarity-sensitive fluorescent probe. Phenoxazine dye that fluoresces intensely in variety of colours. Selective fluorescent stain for intracellular lipid droplets.
Biological action	Dyes & stains
Purity	>98%
Description	Photostable polarity-sensitive fluorescent probe

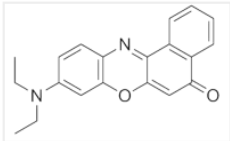
Images



Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in water or methanol (1mg/ml)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	9-(diethylamino)-5H-benzo[a]phenoxazin-5-one
Molecular Weight	318.37
Chemical structure	
Molecular Formula	C ₂₀ H ₁₈ N ₂ O ₂
CAS Number	7385-67-3
PubChem identifier	65182
SMILES	CCN(CC)C1=CC2=C(C=C1)N=C3C4=CC=CC=C4C(=O)C=C3O2

References

Nile red: a selective fluorescent stain for intracellular lipid droplets.

Greenspan P *et al* (1985) J Cell Biol 100(3)

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Application of Nile red, a fluorescent hydrophobic probe, for the detection of neutral lipid deposits in tissue sections: comparison with oil red O.

Fowler SD *et al* (1985) J Histochem Cytochem 33(8)

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Nile red as a polarity-sensitive fluorescent probe of hydrophobic protein surfaces.

Sackett DL *et al* (1987) Anal Biochem 167(2)

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