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DATASHEET

Pyronin Y

Product overview

Name	Pyronin Y
Cat No	HB0822
Alternative names	PY
Biological description	Pyronin Y intercalates RNA and is visible as a red band during electrophoresis.

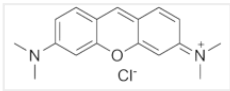
It accumulates in the mitochondria of viable cells and it is often used as a differential stain of nucleic acids in paraffin tissue sections when used with Methyl Green or Nancy-520.

Biological action	Dyes & stains
Description	Cationic dye that intercalates RNA

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in water (75 mM), and in ethanol (10 mM)
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	[6-(dimethylamino)xanthen-3-ylidene]-dimethylazanium chloride
Molecular Weight	302.8
Chemical structure	
Molecular Formula	C ₁₇ H ₁₉ ClN ₂ O
CAS Number	92-32-0
PubChem identifier	7085
SMILES	CN(C)C1=CC2=C(C=C1)C=C3C=CC(=[N+](C)C)C=C3O2.[Cl-]
InChiKey	INCIMLINXXICKS-UHFFFAOYSA-M
MDL number	MFCD00011725

References

Pyronin Y as a fluorescent stain for paraffin sections

Li B *et al* (2002) *Histochem J* 34(6-7)

PubMedID [12769261](#)

Staining with pyronin Y detects changes in conformation of RNA during mitosis and hyperthermia of CHO cells

Traganos F *et al* (1988) *Exp Cell Res* 179(2)

PubMedID [2461311](#)

Application of pyronin Y(G) in cytochemistry of nucleic acids

Darzynkiewicz Z *et al* (1987) *Cytometry* 8(2)

