Hello Bio. Inc. 304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500 F. 609-228-4994

customercare-usa@hellobio.com



# DATASHEET

Pyronin Y

### **Product overview**

Name Pvronin Y HB0822 Cat No 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)

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

**Shipping Conditions** Stable for ambient temperature shipping. Follow storage instructions on receipt.

**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<sub>17</sub>H<sub>19</sub>CIN<sub>2</sub>O 92-32-0 **CAS Number PubChem identifier** 7085

CN(C)C1=CC2=C(C=C1)C=C3C=CC(=[N+](C)C)C=C3O2.[CI-]**SMILES** 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) **PubMedID** 2438101