Product name: Pyronin Y (Pyronin G), Cationic dye (RNA)

Description: Intercalating cationic dye with specificity for RNA.

Biological description: Cationic dye that intercalates RNA and is visible as a red band during electrophoresis. Shown to accumulate in the mitochondria of viable cells. At low concentrations the cytostatic effect is cell arrest in the G1 phase, whereas at high concentrations the cytotoxic effect is cell arrest in the G2 and S phase. Used in combination with Alcian Blue to assess and study pulmonary diseases, and in combination with Methyl Green to stain nucleic acids in paraffin sections. Additionally, has been used to measure RNA in CHO cells by flow cytometry.

CAS Number: 92-32-0

Chemical structure:

\[
\begin{array}{c}
\text{H}_2\text{C}_1 \text{N}_2 \text{O} \\
\text{CH}_3
\end{array}
\]

Properties:

- Chemical name: \(N\)-[6-(Dimethylamino)-3H-xanthen-3-ylidene]-N-methylmethanaminium chloride
- Molecular weight: 302.80
- Molecular formula: \(C_{17}H_{19}ClN_2O\)
- Storage instructions: Store at Room Temperature. The product can be stored for up to 12 months.
- Solubility overview: Soluble in water to 75 mM and in ethanol to 10 mM
- Handling: Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

Source: Synthetic

Please note: All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS”
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