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DATASHEET

Ethidium Bromide solution, 10mg/mL in H_2O

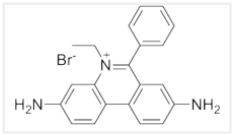
Product overview

Name	Ethidium Bromide solution, 10mg/mL in H_2O
Cat No	HB9326
Biological description	Intercalating DNA and RNA fluorescent dye which intercalates between base pairs. Fluorescence of dye increases when bound to double stranded DNA and RNA. It is commonly used in gel staining and other staining processes.
Biological action	Dyes & stains
Description	Intercalating DNA/RNA fluorescent dye

Solubility & Handling

Storage instructions	+4°C
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	5-ethyl-6-phenylphenanthridin-5-ium-3,8-diamine;bromide
Molecular Weight	394.31
Chemical structure	
Molecular Formula	$C_{21}H_{20}BrN_3$
CAS Number	1239-45-8
PubChem identifier	14710
SMILES	CC[N+]1=C2C=C(C=CC2=C3C=CC(=CC3=C1C4=CC=CC=C4)N)N.[Br-]
InChiKey	ZMMJGEGLRURXTF-UHFFFAOYSA-N
MDL number	MFCD00011724

References

The Effect of Ethidium Bromide on Mobility of DNA Fragments in Agarose Gel Electrophoresis

Sigmon and Larcom (1996) Electrophoresis 17(10)
PubMedID 8957173

Ethidium Bromide Provides a Simple Tool for Identifying Genuine DNA-independent Protein Associations

Herr et al (1992) Proc Natl Acad Sci U S A 89(15)
PubMedID 1495986