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DATASHEET

Ethidium homodimer I

Product overview

Name	Ethidium homodimer I
Cat No	HB18482
Alternative names	Dead Cell Stain, EtDi, EthD-1
Biological description	Ethidium homodimer I (EthD-I) is a membrane-impermeable, high-affinity, nucleic acid stain. Selectively labels dead cells with compromised plasma membranes. Compatible with flow cytometry, fluorescence microscopy, and plate reader assays.
Applications	fluorescence imaging, live cell imaging
Purity	>90%
Description	Red fluorescent selective dead cell stain.

Solubility & Handling

Storage instructions	-20°
Solubility overview	DMSO
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.
Handling	This compound is light sensitive; exposure to light may affect compound performance. We therefore recommend storing the solid material and any solutions in the dark and protecting from light.
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-[3-[2-[3-(3,8-diamino-6-phenylphenanthridin-5-ium-5-yl)propylamino]ethylamino]propyl]-6-phenylphenanthridin-5-ium-3,8-diamine;dichloride;dihydrochloride
Molecular Weight	856.8
Chemical structure	
Molecular Formula	C ₄₆ H ₅₀ Cl ₄ N ₈
CAS Number	61926-22-5
PubChem identifier	12328897
SMILES	C1=CC=C(C=C1)C2=C3C=C(C=CC3=C4C=CC(=CC4=[N+]2CCCNCCNCCC[N+]5=C6C=C(C=CC6=C7C=CC(=CC7=C5C8=CC=CC=C8)N)N)N)N.Cl.Cl.[Cl-].[Cl-]
InChIKey	ZKAJUKABUUJRLB-UHFFFAOYSA-N
Appearance	Solid
Excitation	528 nm
Emission	618 nm

Chemical name

5-[3-[2-[3-(3,8-diamino-6-phenylphenanthridin-5-ium-5-yl)propylamino]ethylamino]propyl]-6-phenylphenanthridin-5-ium-3,8-diamine;dichloride;dihydrochloride

References

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