Product datasheet

Dihydroethidium (DHE), Blue fluorescent dye ab145360

1 References

Overview

Product name: Dihydroethidium (DHE), Blue fluorescent dye
Description: Cell-permeable blue fluorescent dye. Redox indicator.
Biological description: Cell-permeable blue fluorescent dye. Redox indicator. Loses fluorescence on oxidation to ethidium (ab141391). Detects superoxide radical in vivo.
Purity: > 95%
CAS Number: 104821-25-2
Chemical structure:

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H3C

\[ \text{H}_2\text{N} - \text{C(6)} - \text{N} - \text{N} \_2 \text{H} \]
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Properties

Excitation: 392nm
Emission: 410nm
Chemical name: 5-Ethyl-6-phenyl-6H-phenanthridine-3,8-diamine
Molecular weight: 315.41
Molecular formula: C₂₁H₂₁N₃
PubChem identifier: 128682
Storage instructions: Store at Room Temperature. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview: Soluble in DMSO to 100 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 usable 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.

SMILES: CCN1C=C=C(C=C(C2)=C(=C2)=N)C3=C1C=C(C=C(C3)=N)C4=CC=CC=C4
Source: Synthetic

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