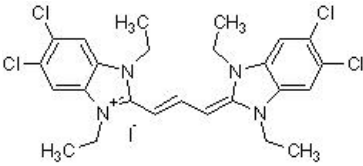


Product datasheet

JC-1, Mitochondrial membrane potential dye ab141387

2 References

Overview

Product name	JC-1, Mitochondrial membrane potential dye
Description	Mitochondrial membrane-potential dye
Biological description	Mitochondrial membrane-potential dye. Exhibits potential-dependent accumulation in mitochondria. Fluorescence emission shift from green (~529 nm) to red (~590 nm). Depolarization is indicated by a decrease in the red/green fluorescence intensity ratio.
Purity	> 98%
CAS Number	3520-43-2
Chemical structure	

Properties

Excitation	519nm
Emission	590nm
Chemical name	5,6-Dichloro-2-[(<i>E</i>)-3-(5,6-dichloro-1,3-diethyl-1,3-dihydro-2 <i>H</i> -benzimidazol-2-ylidene)-1-prop-1-enyl]-1,3-diethyl-1 <i>H</i> -benzimidazolium iodide
Molecular weight	652.23
Molecular formula	C ₂₅ H ₂₇ Cl ₄ IN ₄
PubChem identifier	5492929
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 25 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.

SMILES

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Source

Synthetic

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