JC-1 (ultra pure)

Mitochondria dye

JC-1 is widely used for determining mitochondrial membrane potential by flow cytometry, fluorescence microscopy and in microplate-based fluorescent assays. JC-1 accumulates in mitochondria, selectively generating an orange J-aggregate emission profile (590 nm) in healthy cells. However, upon cell injury, as membrane potential decreases, JC-1 monomers are generated, resulting in a shift to green emission (529 nm). The principal advantage of JC-1 relative to other commonly employed fluorescent probes of mitochondrial membrane potential is that it allows for both qualitative visualization, considering the shift from orange to green fluorescence emission, and quantitative detection, considering the fluorescence intensity ratio. Wavelength Maxima: Excitation 515nm, Emission 529nm

Citations: 39

View Online »

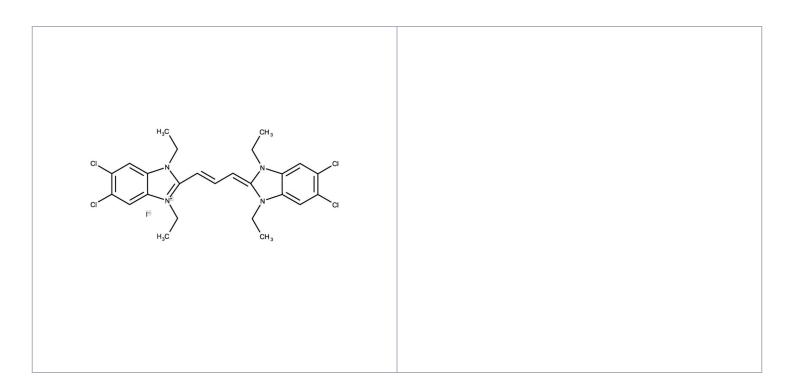
Ordering Information

Order Online »

ENZ-52304 5mg

Manuals, SDS & CofA

View Online »



Handling & Storage

Use/Stability Stable for at least one year after receipt when stored as recommended.

Handling Protect from light. Keep cool and dry.

Long Term Storage -20°C

Shipping Ambient Temperature

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name 5,5',6,6'-Tetrachloro-1,1',3,3'-

tetraethylbenzimidazolylcarbocyanine iodide

CAS 3520-43-2

Formula $C_{25}H_{27}CI_4IN_4$

MW 652.2

Purity ≥95% (HPLC)

Solubility Soluble in DMSO.

Technical Info / Product NotesThis product is a member of the CELLESTIAL[®] product

line, reagents and assay kits comprising fluorescent

molecular probes that have been extensively

benchmarked for live cell analysis applications.

CELLESTIAL[®] reagents and kits are optimal for use in demanding imaging applications, such as confocal

microscopy, flow cytometry and HCS, where consistency

and reproducibility are required.

Last modified: November 4, 2024

