

JC-1 Mitochondrial Membrane Potential Dye

MESGEN[™]
INNOVATION BIOTECHNOLOGY

MG9621

Product Name : JC-1 Mitochondrial Membrane Potential Dye

Cat.No. MG9621

Lot No. 20140111MGJ

Formulation : Solid

CAS : 3520-43-2

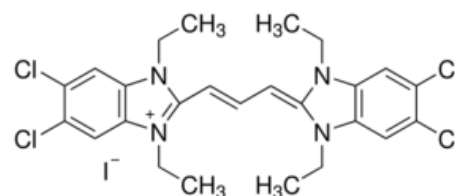
MW : 652.23

Purity : ≥95%

Solubility : Soluble in DMSO

Storage : Store at -20°C

Package size : 1mg / 5mg



Application

A dual-emission potential-sensitive probe that can be used to measure mitochondrial membrane potential. JC-1 is a green-fluorescent ($\lambda_{ex}=515$ nm) monomer at low membrane potential. At higher potentials, JC-1 forms red-fluorescent ($\lambda_{em}=585$ nm) "J-aggregates," which exhibit broad excitation and very narrow emission spectra. The ratio of red to green fluorescence of JC-1 is dependent only on membrane potential, and not influenced by mitochondrial size, shape, or density.

Recommended work concentration

1-20ug/mL

For Research Use Only. Not Intended for Diagnostic or Therapeutic Use.