



LKT Laboratories, Inc.

JC-1 Iodide

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Product Information

Product ID J0800

CAS No. 3520-43-2

Chemical Name 5,6-Dichloro-2-[(1E)-3-(5,6-dichloro-1,3-diethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)-1-propen-1-yl]-1,3-diethyl-1H-3,1-benzimidazol-3-ium iodide

Synonym

Formula C₂₅H₂₇Cl₄N₄

Formula Wt. 652.23

Melting Point

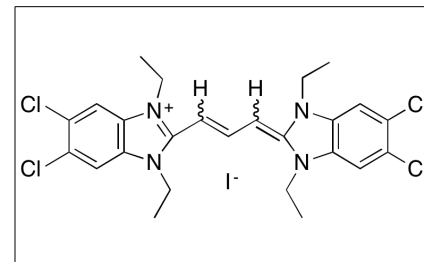
Purity ≥90%

Solubility Soluble in methanol, DMSO.

Store Temp -20° C

Ship Temp Ambient

Description JC-1 is a potential-dependent J-aggregate-forming cation that is used to detect changes in the mitochondrial membrane potential.



Bulk quantities available upon request

Product ID **Size**

J0800 1 mg

J0800 5 mg

References Zhang C, Tian Y, Song F, et al. Salinomycin inhibits the growth of colorectal carcinoma by targeting tumor stem cells. *Oncol Rep.* 2015 Sep 8. [Epub ahead of print]. PMID: 26352531.

Jiang Z, Li X, Lin Z, et al. Ethyl pyruvate reduces hepatic mitochondrial swelling and dysfunction in a rat model of sepsis. *Int J Clin Exp Pathol.* 2015 Jul 1;8(7):7774-85. PMID: 26339342.

Smiley ST, Reers M, Mottola-Hartshorn C, et al. Intracellular heterogeneity in mitochondrial membrane potentials revealed by a J-aggregate-forming lipophilic cation JC-1. *Proc Natl Acad Sci U S A.* 1991 May 1;88(9):3671-5. PMID: 2023917.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.