

46117 Landing Parkway, Fremont, CA 94538 U.S.A. Tel: 1-510-265-1027; Fax: 1-510-265-1352

www.biotium.com

PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME:

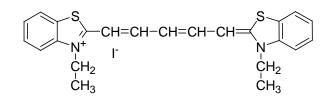
DiSC₂(5) (3,3'-diethylthiadicarbocyanine, iodide)

CATALOG #

MOLECULAR INFORMATION:

C₂₃H₂₃IN₂S₂ MWt: 518.48 [514-73-8]

40041



PROPERTIES:	
Color & Form	Dark green solid
Purity	\geq 95% by TLC
Solubility	Soluble in DMSO or MeOH
Absorption	651nm (MeOH)
Extinction	
Coefficient	
STORAGE AND HANDLING:	Stored desiccated at 4 °C. Protect from light, especially when in solution.
APPLICATION:	$DiSC_{2}(5)$ binds to DNA-DNA or PNA-DNA duplexes with a large blue-shift of the
	absorption spectrum. Binding of the dye to PNA-DNA hybrid, in particular, blue-shifts the dye absorption spectrum by as much as 115 nm, offering a visual method to detect nucleic acid hybridization. ^{1,2}
	Ref.: 1) Nucleic Acid Res. 30(2), 3(2002); 2) J. Am. Chem. Soc. 121, 2686(1999)
TOXICITY:	Unknown
FIRST AID:	Potentially harmful. Avoid prolonged or repeated exposure. Avoid getting in eyes, on skin, or on clothing. Wash thoroughly after handling. If eye or skin contact occurs, wash affected areas with plenty of water for 15 minutes and seek medical advice. In case of inhaling or swallowing, move individual to fresh air and seek medical advice immediately.

Disclaimer: *Materials from Biotium are sold for research use only, and are not intended for food, drug, household, or cosmetic use. Biotium is not liable for any damage resulting from handling or contact with this product.*