

Caution: For Laboratory Use. A product for research purposes only.

# ICG NHS ester

## Description:

Indocyanine green (ICG) is a near-infrared fluorescence imaging dye. Absorption maximum is at 800 nm and there is slight absorption in the visible range, which results in low auto-fluorescence and tissue absorbance. Emission maximum is at 810 nm.

ICG-NHS binds efficiently to nucleophiles, particularly to epsilon-amino functions of solvent accessible lysines on various substrates (antibodies, proteins, peptides, enzymes) and small molecules. ICG has been approved by the FDA and has been found in numerous applications in therapeutics and diagnostics, like: detection of solid tumors, localization of lymph nodes, visualization of retinal and choroidal vasculature, angiography during reconstructive surgery. ICG can be used as imaging dye and as a hyperthermia agent.

PRODUCT DETAILS	
Formula	$C_{49}H_{53}N_3O_7S$
Appearance	Green solid
Molecular Formula	$C_{49}H_{53}N_3O_7S$
Molecular Weight	828.03
Purity	>99% (TLC)
Solubility	Soluble in DMSO or DMF
Handling	Protect from air and light
Shipping	DRY ICE
Storage Conditions	-20°C
USAGE	For Research Use Only! Not For Use in Humans.