
Product Information Sheet

Ordering Information

Product Number: 990
Product Name: ICG-TFP ester
Unit Size: 1 mg
Storage Conditions:
Expiration Date: 12 months upon receiving

Chemical and Spectral Properties

Appearance: Solid
Molecular Weight: 981.06
Soluble In: N/A
Excitation Wavelength: N/A
Emission Wavelength: N/A

Application Notes

Indocyanine green (ICG) is a cyanine dye used in medical diagnostics. It is used for determining cardiac output, hepatic function, and liver blood flow, and for ophthalmic angiography. It has a peak spectral absorption close to 800 nm. These infrared frequencies penetrate retinal layers, allowing ICG angiography to image deeper patterns of circulation than fluorescein angiography. The amino-reactive ICG-Sulfo-OSu (#180) is predominantly used to make various ICG bioconjugates with antibodies and other biological molecules since it has improved water solubility compared to other ICG amine-reactive derivatives. However, the well-known ICG-Sulfo-OSu is extremely unstable. ICG-TFP ester has significantly improved stability and good water solubility. Under the same conditions, it gives higher conjugation yield than ICG-Sulfo-OSu.