Product Information Sheet

Ordering Information

Product Number: 710
Product Name: 5-OG488 succinimidyl ester [equivalent to Oregon Green® 488 carboxylic acid, succinimidyl ester, 5-isomer] *Single isomer*
Unit Size: 5 mg
Storage Conditions: <-15 °C and kept from light and moisture
Expiration Date: 12 months upon receiving

Chemical and Spectral Properties

Molecular Weight: 509.37

![Chemical Structure](image)

Soluble in: DMSO
Excitation Wavelength: 496 nm
Emission Wavelength: 524 nm

Application Notes

5-OG488 succinimidyl ester is the same molecule to Oregon Green® 488 carboxylic acid, succinimidyl ester, 5-isomer (Invitrogen #O6147, Oregon Green® is the Trademark of Invitrogen). This fluorinated analog of fluorescein has higher photostability and a lower pKa ~ 4.7 while 5-FAM has pKa ~6.4. The decreased pKa of 5-OG488 makes its fluorescence essentially pH insensitive in the physiological pH range. This amine-reactive 5-OG488 succinimidyl ester can be used to make bright green fluorescent bioconjugates with excitation/emission maxima ~496/524 nm. It is an excellent replacement to 5-FITC that has severe pH dependence and low photostability.