

5-OG488 succinimidyl ester [equivalent to Oregon Green® 488 carboxylic acid, succinimidyl ester, 5-isomer]

Catalog number: 710
Unit size: 5 mg

Product Details

Storage Conditions	Freeze (<math>< -15\text{ }^{\circ}\text{C}</math>), Minimize light exposure
Expiration Date	12 months upon receiving

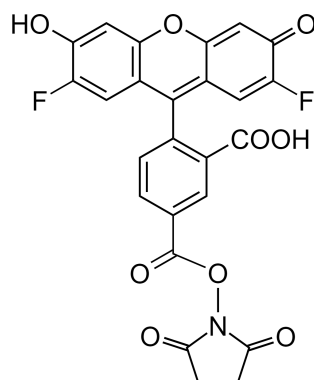
Chemical Properties

Appearance Orange solid

Molecular Weight 509.37

Soluble In DMSO

Chemical Structure



Spectral Properties

Excitation Wavelength 498 nm

Emission Wavelength 526 nm

Applications

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.