

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

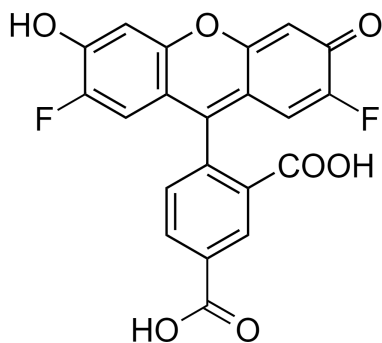
 Catalog number: 708
 Unit size: 25 mg

Product Details

Storage Conditions	Freeze (<-15 °C), Minimize light exposure
Expiration Date	12 months upon receiving

Chemical Properties

Appearance	Orange-red solid
Molecular Weight	412.30
Soluble In	DMSO
Chemical Structure	


Spectral Properties

Excitation Wavelength	498 nm
Emission Wavelength	526 nm

Applications

5-OG488 acid is the same molecule to Oregon Green® 488 carboxylic acid, 5-isomer (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 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.