

XFD488 amine

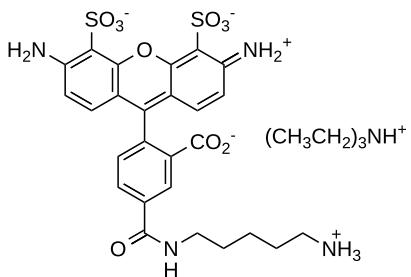
Catalog Number: 1705

Unit Size: 1 mg

Product Details

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

Chemical Properties

Appearance	Solid orange
Molecular Weight	719.83
Soluble In	DMSO
Chemical Structure	 The chemical structure of XFD488 amine is a complex molecule. It features a central core with two 4-sulfophenyl groups (SO3-) attached to the 5 and 7 positions of a central benzene ring. The 2 and 6 positions of these rings are connected to a central carbon atom. This central carbon is also bonded to a 4-carboxyphenyl group (CO2-) and a 4-aminobiphenyl group. The 4-aminobiphenyl group is further substituted with a propylamino group, (CH3CH2)3NH2+, at the para position. The 4-carboxyphenyl group is substituted with a 4-(4-aminobutyl)phenyl group at the para position.

Spectral Properties

Excitation Wavelength	499 nm
Emission Wavelength	520 nm

Applications

XFD488 amine is the same molecule to Alexa Fluor® 488 C5 amine. The fluorescent dye amines are reactive molecules that can be used to add a fluorescent label to biomolecules containing a carbonyl group. XFD488 amine reacts with carboxylic acids, aldehydes and ketones. It is a very useful building block for developing XFD488 probes.