

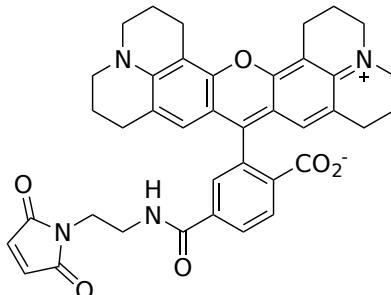
6-ROX C2 Maleimide

Catalog Number: 426
Unit Size: 1 mg

Product Details

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

Chemical Properties

Appearance	Solid purple
Molecular Weight	656.73
Soluble In	DMSO
Chemical Structure	 The chemical structure of 6-ROX C2 Maleimide is a complex molecule. It features a central core with a 6-ROX group (a 6-carboxy-2-oxo-2H-pyran-3-yl group) attached to a 2,7-bis(4-aminophenyl)-1,4-dihydro-5H-cyclooctene-5-ylidene group. This core is further substituted with a 2-(2-oxo-2H-azepin-5-yl)ethyl group and a 2-(2-oxo-2H-azepin-5-yl) group.

Spectral Properties

Excitation Wavelength	578 nm
Emission Wavelength	604 nm

Applications

6-ROX C2 maleimide is an excellent thiol-reactive ROX probe that can be used to develop new ROX bioconjugates. It selectively reacts with thiol groups of peptides, proteins and other biological molecules (such as thiol-modified oligonucleotides and small thiol-containing organic molecules). 6-ROX C2 maleimide has the spectral properties identical to those of 6-ROX conjugates, thus all the instrument settings of the 6-ROX probes would be applicable to the applications of 6-ROX C2 maleimide conjugates. Compared to the commonly used 6-ROX acid and 6-ROX SE, 6-ROX C2 maleimide is much more stable.