

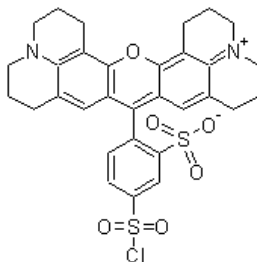
## Product Information Sheet

### Ordering Information

Product Number:	480
Product Name:	Sulforhodamine 101 sulfonyl chloride
Unit Size:	10 mg
Storage Conditions:	<-15 °C and kept from light and moisture
Expiration Date:	12 months upon receiving

### Chemical, Physical and Spectral Properties

Molecular Weight:	625.16
Chemical Structure:	



Appearance:	Purple solid
Soluble in:	DMF
Excitation Wavelength:	588 nm
Emission Wavelength:	601 nm

### Application Notes

Sulforhodamine 101 acid chloride (also called Texas Red<sup>®</sup>) is the most popular labeling reagent of sulfonyl chloride. It is quite unstable in water, especially at the higher pH required for reaction with aliphatic amines. Protein modification by this reagent is frequently done at low temperature (preferably at 4 °C). This reagent reacts with amine compounds such as amino acids, peptides and proteins to give bright red fluorescent conjugates that are extremely stable, and resistant to protease-catalyzed hydrolysis. Unlike succinimidyl esters, sulfonyl chlorides react with both aliphatic amines and aromatic amines indiscriminately.