

Product Information Sheet

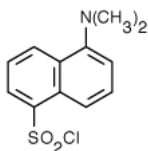
Ordering Information

Product Number:	811
Product Name:	Dansyl chloride [5-Dimethylaminonaphthalene-1-sulfonyl chloride]
Unit Size:	100 mg
Storage Conditions:	<-15 °C and kept from light and moisture
Expiration Date:	12 months upon receiving

Chemical, Physical and Spectral Properties

Molecular Weight: 269.75

Chemical Structure:



Appearance:	Yellow solid
Soluble in:	DMSO or DMF
Excitation Wavelength:	372 nm
Emission Wavelength:	

Application Notes

Dansyl chloride is non-fluorescent until it reacts with amines. The resulting Dansyl amides have environmentally sensitive fluorescence quantum yields and emission maxima along with large Stokes shifts. This environment-sensitive fluorescence property has made Dansyl chloride an important tool for biophysical studies. It is particularly useful for preparing fluorescent drug or ligand analogs that are expected to bind to hydrophobic sites in proteins or membranes or other biological receptors. Dansyl protein conjugates have fluorescence lifetimes of 10–20 nanoseconds.