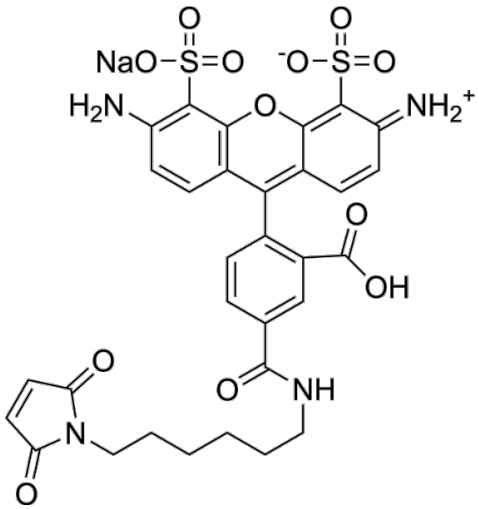
Product Data Sheet

Product Name: AF 488 maleimide
Cat. No.: GC74228

Chemical Properties

Cas. No.			
Formula	$C_{31}H_{27}N_4NaO_{12}S_2$	M.Wt	734.69
Solubility	DMSO : 3.67 mg/mL (5.00 mM; Need ultrasonic and warming)	Storage	-20°C, protect from light, stored under nitrogen
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

AF 488 maleimide is a thiol-reactive dye for labeling of protein SH groups, and it can be used to attach AF 488 fluorophore to proteins and peptides containing cysteine residues, as well as to other thiolated molecules. AF488 exhibits the λem and λex wavelength of 520 nm and 470 nm, respectively.

References:

[1]. Ellison CK, et al. Real-time microscopy and psical perturbation of bacterial pili using maleimide-

conjugated molecules. Nat Protoc. 2019 Jun;14(6):1803-1819.
[2]. Chakraborty S, Hu S Y, Wu S H, et al. The interaction affinity between vascular cell adhesion molecule-1 (VCAM-1) and very late antigen-4 (VLA-4) analyzed by quantitative FRET[J]. PLoS One, 2015, 10(3): e0121399.

Caution: Product has not been fully validated for medical applications. For research use only.
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