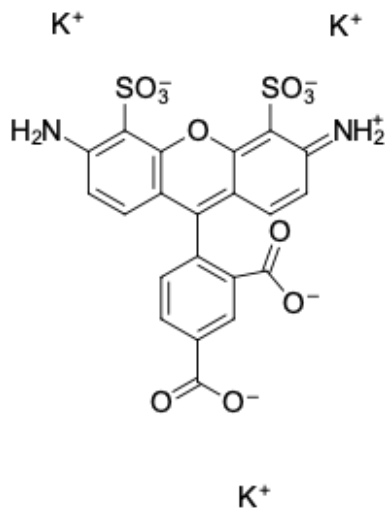


AF 488 carboxylic acid

<http://hk.lumiprobe.com/p/af-488-carboxylic-acid>

AF 488 is a bright green-fluorescent dye that is commonly used in microscopy and cell assays because of its photostability. AF 488 can be used with [DAPI](#) and is well suited to multiplex assay. AF 488 has high quantum yield and stable fluorescence within the pH range from 4 to 10.

AF 488 carboxylic acid is a non-reactive AF 488 form that can be used as a reference standard in experiments where AF 488 conjugates are used. The carboxylic acid can be also used for the synthesis of activated esters [such as sulfo-NHS, TFP (2,3,5,6-tetrafluorophenol) and STP (4-sulfo-2,3,5,6-tetrafluorophenol)] or modified with hydrazines, hydroxylamines, or amines in aqueous solutions using water-soluble carbodiimides. Thus, this derivative can be conjugated to molecules that contain amino groups, such as proteins, antibodies, and peptides. Therefore, AF 488 carboxylic acid is used during solid-phase peptide synthesis for peptide modification *in situ* in the presence of activating agents such as HATU.



外观:

分子量: 648.75

分子式: $C_{21}H_{11}K_3N_2O_{11}S_2$

IUPAC 名称: 4-(6-amino-3-iminio-4,5-disulfonato-3H-xanthen-9-yl)isophthalate

溶解度:

质量控制:

储存条件:

激发/吸收极大值, 纳米: 495

ϵ , 摩尔吸光系数, cm^{-1} : 71800

发射极大值, 纳米: 519

荧光量子产率: 0.91

CF_{260} : 0.16

CF_{280} : 0.10