

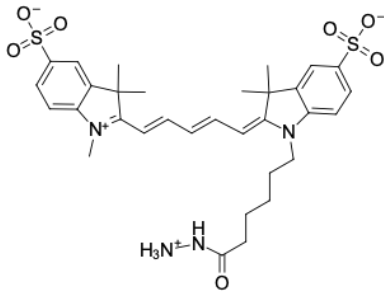
sulfo-Cyanine5 hydrazide

<http://cn.lumiprobe.com/p/sulfo-cy5-hydrazide>

sulfo-Cyanine5 is a sulfated derivative of Cyanine5 dye, well soluble in water because of two negatively charged sulfo groups in its structure. By its spectral characteristics, this far-red fluorescent dye is an analog of Cy™ 5.

Hydrazides efficiently react with aldehydes and ketones resulting in hydrazones, so this compound can be used for conjugation with carbonyl derivatives of biomolecules.

The reaction runs in aqueous conditions, which is important when working with antibodies and proteins. Cys-diol groups in sugars in glycosylated proteins and antibodies can be oxidized into dialdehydes, and cysteine in proteins can be converted with enzymes to formyl glycerol (i. e. reactive groups for conjugation with sulfo-Cyanine5 hydrazide). Carboxyl groups of aspartic and glutamic acids in proteins and peptides can be also conjugated with sulfo-Cyanine5 hydrazide in the presence of activating agents: carbodiimide (EDAC) or methyl morpholine (DMTMM) derivatives.



外观:

分子量: 656.83

CAS 编号: 2055138-61-7

分子式: C₃₂H₄₀N₄O₇S₂

溶解度:

质量控制:

储存条件:

激发/吸收极大值, 纳米: 646

ε, 摩尔吸光系数, cm⁻¹: 271000

发射极大值, 纳米: 662

荧光量子产率: 0.28

CF₂₆₀: 0.04

CF₂₈₀: 0.04