

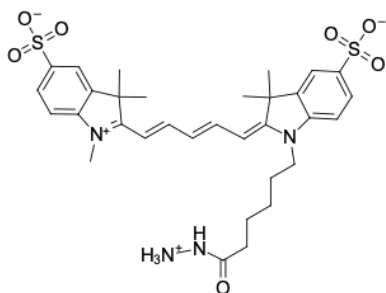
## sulfo-Cyanine5 hydrazide

<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<sup>™</sup> 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 656.83

量:

CAS 2055138-61-7

编号:

分子 C<sub>32</sub>H<sub>40</sub>N<sub>4</sub>O<sub>7</sub>S<sub>2</sub>

式:

溶解

度:

质量

控制:

储存

条件:

法律 本产品仅供研究目的提供和销售。 本产品并未经过食品、药品、医疗器械、化妆品等领域的安全性和效力测试，且未经明示或暗示授权用于其他任何用途，包括但不限于体外诊断、人类或动物用途，以及商业用途。

激发/ 646

吸收

极大

值,

纳米:

ε, 摩 271000

尔吸

光系

数  $m$

发射 662

极大

值,

纳米:

荧光 0.28

量子

产率:

CF<sub>260</sub>: 0.04

CF<sub>280</sub>: 0.04