

Bovine Serum Albumin (BSA), sulfo-Cyanine7.5 conjugate

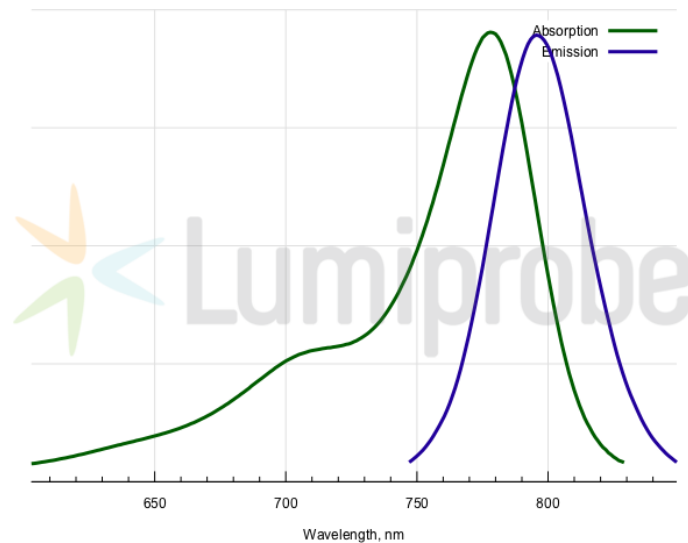
<http://cn.lumiprobe.com/p/sulfo-cy75-bsa>

This product is a ready-to-use fluorescent conjugate of Bovine Serum Albumin (BSA) with sulfo-Cyanine7.5, a bright, photostable dye emitting in the near-infrared (NIR) region. Its spectral purity and hydrophilicity make it suitable for both *in vivo* and *in vitro* studies in cell biology, neurobiology, immunology, and pharmacokinetics. It can be utilized to track endocytosis and intracellular transport, investigate the permeability of cellular barriers, analyze cerebrospinal fluid (CSF) dynamics and glymphatic system function, and validate targeted drug delivery systems—including the real-time assessment of their biodistribution.

Its precisely defined Degree of Labeling (DOL) enables the use of sulfo-Cyanine7.5 BSA as a reference standard for calibrating fluorescence intensity and monitoring photobleaching across a wide spectrum of techniques—ranging from super-resolution fluorescence microscopy to flow cytometry and optical tomography.

sulfo-Cyanine7.5 is structurally similar to Indocyanine Green (ICG) but has a higher fluorescence quantum yield. Its excitation and emission maxima match the tissue transparency window (700–900 nm), enabling deep signal penetration, minimal tissue autofluorescence, and a high signal-to-noise ratio for visualizing internal structures and processes. The dye resists photodegradation, allowing prolonged time-lapse imaging without signal loss. Fluorescence remains stable over pH 4–10, supporting a consistent signal across varied cellular environments.

The conjugate is supplied as a lyophilized powder that rapidly reconstitutes in aqueous buffer solutions to the desired concentration. The product is fully ready for use immediately upon dissolution and requires no labor-intensive purification to remove unbound dye or aggregates.



外观:

溶解 水
度:

质量 分光光度法
控制:

储存 收到后 -20°C 避光保存 24 个月。运输: 室温下最多可保存3周。干燥。

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/ 778

吸收
极大
值,
纳米:

ϵ , 摩 222000

尔吸
光系
数 cm^2

发射 797
极大
值,
纳米:
荧光 0.21
量子
产率:
 CF_{260} : 0.09
 CF_{280} : 0.09