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Bovine Serum Albumin (BSA), AF 647 conjugate

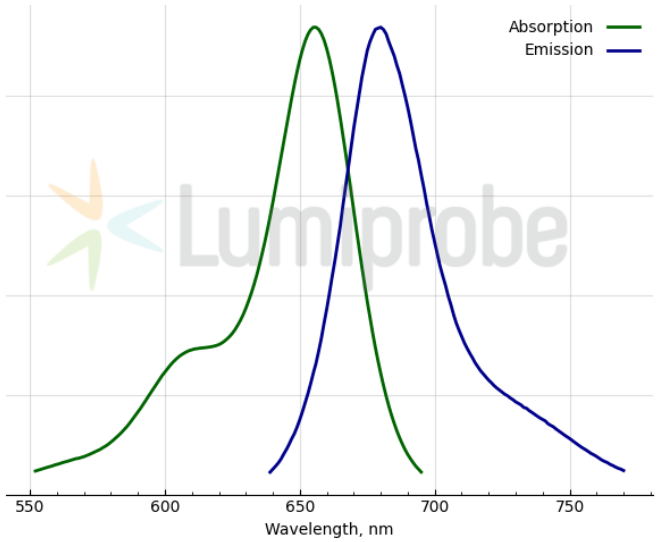
http://cn.lumiprobe.com/p/af647-bsa

This product is a ready-to-use fluorescent conjugate of Bovine Serum Albumin (BSA) coupled to the bright, photostable far-red dye AF 647. It is utilized for a wide range of applications in cell biology, neurobiology, immunology, and biochemistry—including tracking endocytosis and intracellular transport; investigating tissue and cellular barrier permeability, cerebrospinal fluid (CSF) flow, and glymphatic system function; as well as assessing the distribution and delivery of biomolecules and nanoparticles within living systems.

Thanks to a precisely defined dye-to-protein ratio (DOL), these fluorescent BSA conjugates serve as reference standards for calibrating fluorescence intensity, monitoring photostability, and performing quantitative analysis in fluorescence microscopy, flow cytometry, and other fluorescence-based analytical techniques.

AF 647 exhibits high photostability and maintains stable fluorescence across a broad pH range (4-10), ensuring a reliable signal even in acidic intracellular compartments such as endosomes and lysosomes. In terms of brightness and photostability, AF 647 outperforms many traditional dyes, making it particularly well-suited for long-term observations, multiplex imaging, and super-resolution microscopy techniques.

The spectral properties of AF 647 are optimized for use with 633–640 nm lasers and the standard Cyanine5/APC detection channels found in most confocal microscopes and flow cytometers. Operating within the far-red region of the spectrum helps minimize the impact of biological sample autofluorescence and enhances the signal-to-noise ratio during tissue and cell imaging. The conjugate is a lyophilized powder that dissolves readily in aqueous buffer solutions. The product requires no additional purification, thereby reducing sample preparation time.



外观:	
溶解度:	水
质量控制:	分光光度法
储存条件:	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。
法律声明:	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/吸收极大值，纳米:	655
ε, 摩尔吸光系数, cm	191800

发射极大值，纳米:	680
荧光量子产率:	0.15
CF_{260}:	0.09
CF_{280}:	0.08