

AF 488 streptavidin

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

Streptavidin is a tetrameric biotin-binding protein derived from the bacterium *Streptomyces avidinii*. Streptavidin binds up to four biotin molecules with high affinity and selectivity via multiple hydrogen bonds and van der Waals interactions. Due to the lack of carbohydrate modifications and a near-neutral pI, streptavidin exhibits less nonspecific binding than another biotin-binding protein — avidin. Streptavidin also has high thermostability and resistance against extreme pH, denaturing agents, and enzymatic degradation, allowing using this protein under various experimental conditions.

Fluorescent conjugates of streptavidin are commonly used as a second-step reagent for specific detection of a variety of biotin-labeled biomolecules, such as proteins (antibodies, etc.), nucleic acids, lipids, and other molecules in indirect immunofluorescent staining, western blots, flow cytometry, microplate assays, and other detection techniques.

This streptavidin is a lyophilized conjugate with AF 488, a bright, photostable green fluorophore with spectral characteristics similar to FITC (absorption max. at 495 nm, emission max. at 519 nm).

The recommended concentration range for use is 0.5-10 µg/mL. Avoid using biotin-containing solutions (some serums, RPMI 1640, etc.) as diluents.

| | |
|-------|---|
| 外观: | 橙色固體 |
| 溶解度: | 水性好 |
| 储存条件: | 運輸: 常溫下保存1週。 -20°C 保存 9 個月。 |
| 法律声明: | 本產品僅供研究目的提供和銷售。本產品並未經過食品、藥品、醫療器械、化妝品等領域的安全性和效力測試, 且未經明示或暗示授權用於其他任何用途, 包括但不限於體外診斷、人類或動物用途, 以及商業用途。 |

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