

Streptavidin Conjugates

Introduction

AAT Bioquest® offers a variety of streptavidin products including those labeled with our outstanding series of iFluor™ and mFluor™ dyes. Both iFluor™ and mFluor™ dyes are optimized for labeling proteins, in particular, antibodies. These dyes are bright, photostable and have minimal quenching on proteins. They can be well excited by the major laser lines of fluorescence instruments (e.g., 350, 405, 488, 555 and 633 nm). The iFluor™ dyes also have much better labeling performance than the classic fluorescent labeling dyes such as FITC, TRITC, Texas Red®, Cy3®, Cy5® and Cy7®. Each iFluor™ dye was developed to match the spectral properties of a particular Alexa Fluor® or other equivalent fluorescent labeling dyes (such as DyLight™ dyes).

Streptavidin conjugates are widely used together with a conjugate of biotin for specific detection of a variety of proteins, protein motifs, nucleic acids and other molecules since streptavidin has a very high binding affinity for biotin. For most fluorescent streptavidin applications, a concentration of 1 - 20 µg/mL is sufficient; however, optimal conditions should be determined for each particular application. A full selection of iFluor™ dyes labeled products including secondary antibodies, antibody labeling kits, and other bioconjugates such as phalloidins, annexin V are also available from AAT Bioquest. Please visit www.aatbio.com for details.

Storage and Handling:

Upon receipt, store the liquid form products (RPE, APC, and PerCP conjugates) at 4 °C and kept from light, do not freeze. Or store the lyophilized powder at <-15 °C, and kept from light and moisture. When ready to use, add ddH₂O with 0.1% bovine serum albumin into the powder vial to have 1mg/mL stock solution. This reconstituted solution remains stable for two months without significant change when stored in the presence of 2 mM sodium azide and kept from light at 4 °C. For longer storage, the reconstituted solution could be either divided into single-used aliquots, or added equal volume of glycerol (50% in final concentration) without aliquoting, and store the solution at -20°C (protected from light). The product is stable for 1 year at -20°C. *For all RPE, APC, and PerCP conjugates store them at 2-6 °C (DO NOT FREEZE).*

Selection Chart for Streptavidin Conjugates

Cat. #	Product Name	Unit	Ex (nm)	Em (nm)
16890	AF350-streptavidin conjugate [Streptavidin, Alexa Fluor™ 350 Conjugate]	1 mg	346	445
16891	AF488-streptavidin conjugate [Streptavidin, Alexa Fluor™ 488 Conjugate]	1 mg	494	517
16892	AF594-streptavidin conjugate [Streptavidin, Alexa Fluor™ 350 Conjugate]	1 mg	590	617
16900	RPE-streptavidin conjugate	100 µg	565	575
16901	RPE-streptavidin conjugate	1 mg	565	575
16902	APC-streptavidin conjugate	100 µg	651	662
16905	PerCP-streptavidin conjugate	100 µg	482	667
16906	RPE-iFluor™ 647-streptavidin conjugate	100 µg	565	674
16907	RPE-iFluor™ 750-streptavidin conjugate	100 µg	565	779
16908	APC-iFluor™ 750-streptavidin conjugate	100 µg	651	779
16910	FITC-streptavidin conjugate	1 mg	492	515
16911	Texas Red®-streptavidin conjugate	1 mg	582	602
16912	Cy3®-streptavidin conjugate	1 mg	555	565
16913	Cy5®-streptavidin conjugate	1 mg	649	665
16914	Cy7®-streptavidin conjugate	1 mg	749	776
16916	RPE-Cy7-streptavidin conjugate	100 µg	565	779
16917	RPE-Cy7-streptavidin conjugate	1 mg	565	779
16920	HRP-streptavidin conjugate	1 mg	N/A	N/A
16921	AP-streptavidin conjugate	1 mg	N/A	N/A
16925	trFluor™ Eu-streptavidin conjugate	100 µg	346	617
16926	trFluor™ Tb-streptavidin conjugate	100 µg	330	544
16930	mFluor™ Violet 450-streptavidin conjugate	100 µg	403	454
16931	mFluor™ Violet 510-streptavidin conjugate	100 µg	414	508

16932	mFluor™ Violet 540-streptavidin conjugate	100 µg	399	550
16935	mFluor™ Blue 570-streptavidin conjugate	100 µg	553	570
16938	mFluor™ Green 620-streptavidin conjugate	100 µg	523	617
16942	mFluor™ Yellow 630-streptavidin conjugate	100 µg	611	630
16946	mFluor™ Red 700-streptavidin conjugate	100 µg	657	700
16948	mFluor™ Red 780-streptavidin conjugate	100 µg	629	780
16950	iFluor™ 350-streptavidin conjugate	200 µg	345	442
16952	iFluor™ 405-streptavidin conjugate	200 µg	401	420
16955	iFluor™ 488-streptavidin conjugate	200 µg	491	514
16956	iFluor™ 514-streptavidin conjugate	200 µg	518	542
16957	iFluor™ 532-streptavidin conjugate	200 µg	532	554
16958	iFluor™ 546-streptavidin conjugate	200 µg	541	557
16959	iFluor™ 555-streptavidin conjugate	200 µg	559	569
16960	iFluor™ 568-streptavidin conjugate	200 µg	568	587
16962	iFluor™ 594-streptavidin conjugate	200 µg	592	614
16965	iFluor™ 633-streptavidin conjugate	200 µg	638	655
16966	iFluor™ 647-streptavidin conjugate	200 µg	654	674
16968	iFluor™ 680-streptavidin conjugate	200 µg	682	701
16970	iFluor™ 700-streptavidin conjugate	200 µg	693	713
16973	iFluor™ 750-streptavidin conjugate	200 µg	753	779
16980	iFluor™ 350-streptavidin conjugate	1 mg	345	442
16982	iFluor™ 405-streptavidin conjugate	1 mg	401	420
16985	iFluor™ 488-streptavidin conjugate	1 mg	491	514
16986	iFluor™ 514-streptavidin conjugate	1 mg	518	542
16987	iFluor™ 532-streptavidin conjugate	1 mg	542	558
16989	iFluor™ 555-streptavidin conjugate	1 mg	559	569
16992	iFluor™ 594-streptavidin conjugate	1 mg	592	614
16995	iFluor™ 633-streptavidin conjugate	1 mg	638	655
16996	iFluor™ 647-streptavidin conjugate	1 mg	654	674
16997	iFluor™ 680-streptavidin conjugate	1 mg	682	701
16998	iFluor™ 700-streptavidin conjugate	1 mg	693	713
16999	iFluor™ 750-streptavidin conjugate	1 mg	753	779

Notes: Texas Red® and Alexa Fluor® are the trademarks of Molecular Probes. Cy3®, Cy5®, Cy5.5® and Cy7® are the trademarks of GE Health Care. iFluor™ is the trademark of AAT Bioquest.

References

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