

Product datasheet

Europium-Streptavidin ab270228

2 Images

Overview

Product name

Europium-Streptavidin

Product overview

Europium-Streptavidin (ab270228) involves the covalent attachment of the streptavidin to the specially treated surface of 200 nm Europium (Eu) particles, for the detection of biotinylated molecules. The surface treatment of the particles makes the conjugate resistant to aggregation, while the extremely broad Stokes shift of the Eu chelate particle allows you to reach a higher sensitivity in any immunoassay, preventing non-specific fluorescence interference.

Streptavidin is a tetrameric biotin binding protein that is isolated from *Streptomyces avidinii*. It is composed of identical subunits, with the tetramer having a molecular weight of approximately 53kDa. Each subunit binds one biotin molecule with a very high degree of specificity and affinity. The streptavidin–biotin complex is the strongest known noncovalent interaction ($K_d = 10^{-15}M$) between a protein and a ligand.

The combination between the Eu fluorescence properties and the specific interaction of streptavidin with biotin makes our conjugate a useful tool in designing detection systems with excellent sensitivity.

The conjugate in this kit is freeze dried. You simply reconstitute the mixture with the Resuspension Buffer provided in the kit and the conjugate is ready to use.

Features and Benefits of Europium-Streptavidin (ab270228):

Highly stable, easy to use conjugates

Resistant to aggregation

No sonication, shaking or vortexing required

No need for blocking solution

Possibility to work with low conjugate concentrations

Conjugates can be run on an immunochromatographic assay as well as a microwell based assay

Lyophilized for easy shipping and long-term storage

Specifications:

Material: Polystyrene

Appearance: White

Dye: Europium chelate

Specificity: Biotin

Excitation: 365 nm

Emission: 610 nm

General notes:

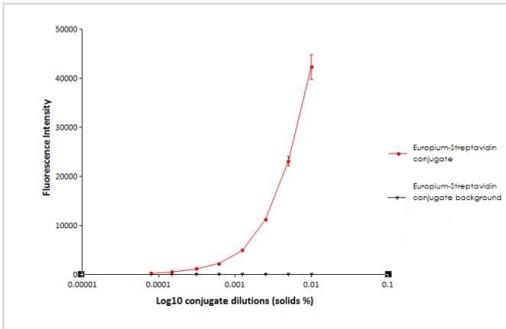
This product is manufactured by Expedeon, an Abcam company. It was previously called 200nm Europium - Streptavidin Conjugate. Expedeon product code 1220-0001 is the same as the 80 µL size of this product and code 1220-0120 is the same as the 400 µL size

Properties

Storage instructions Store at -20°C. Please refer to protocols.

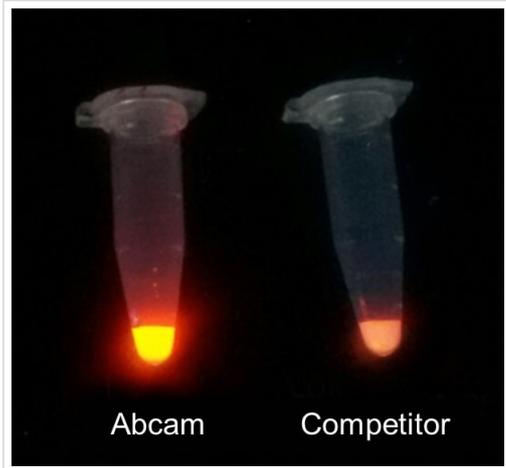
Components	80 µl	400 µl
ab275850 - 200 nm Europium - Streptavidin conjugate (Lyophilized)	1 x 80µl	1 x 400µl
ab273918 - Resuspension Buffer (1X)	1 x 1ml	1 x 1ml

Images



Europium-Streptavidin (ab270228)

Typical ELISA data with a time resolved fluorescence (TRF) readout. Varying dilutions of Europium–Streptavidin (ab270228) were added to a plate coated with biotinylated ovalbumin, and detected using a plate reader.



UV Excitation

Brighter than the competitor product under UV excitation.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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