

Active Streptavidin-coupled magnetic Beads

Cat. No. Streptavidin-436M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Appearance	lyophilized powder mixture
Particle size	2.8µm
Bio-activity	Immobilized 0.04 µg /Test of Biotinylated Human CD3E&CD3D Heterodimer Protein, His,Avitag&Tag Free to the Streptavidin-Magnetic Beads (used for MPCLIA) (10 µg beads/Test), incubated with 100 µL /Test of Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (Clone: OKT3), premium grade at increasing concentration coupled to Anti-Mouse IgG-Acridine ester (0.04 µg /Test). Detection was performed with sensitivity of 0.06 ng/mL in Magnetism particulate chemiluminescence immunoassay (MPCLIA) (KEYSMILE, SMART 6500S).
Coupled amount of protein	About 600 pmol Streptavidin / mg Beads
Capacity	5-20 µg biotinylated proteins or molecules / mg Beads
Background	The Streptavidin-Magnetic Beads are 2.8 µm superparamagnetic particles covalently coupled to a highly pure form of streptavidin (SA). The beads can be used to capture the biotinylated proteins or other molecules, because Streptavidin (SA) has an extraordinarily high affinity for biotin with a dissociation constant (Kd) on the order of 10 ⁻¹⁴ mol/L, the Biotinylated molecules can bind to the SA irreversibly. Streptavidin is a tetrameric protein purified from the bacterium Streptomyces avidin, and exhibits high

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binding affinity for biotin. Able to bind one molecule of biotin with each subunit. Streptavidin (PI=6.0-7.5) has lower level of non-specific binding to various biological components at physiological pH than avidin (PI=7.4), resulting from its isoelectric point (PI). The Streptavidin-Magnetic Beads is easy to capture the biotinylated proteins or other molecules in Chemiluminescence procedures, and the bounded protein have no activity lost, this ready to use products could greatly save your protein coupling time and hassle, and help us get the best performance and highly reproducible results.

Application

The Streptavidin-Magnetic Beads is used to capture the biotinylated proteins or other molecules, it can combination with Acridinium ester markers but not Streptavidin Acridinium ester in chemiluminescence technology, The Acridinium ester markers such as Anti-Mouse IgG or Anti-human IgG-Acridinium ester can capture the antibodies, this allows detection of antigen and antibody binding or antibody screening.

Storage

Upon receipt, please store the Beads at -20°C. The shelf life is 1 year at -20 °C.

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