

Product Information Sheet

Product Name: Streptavidin, Eu labeled

Catalog Number: AS-72252-50, -100

Size: 50µg, 100µg

Concentration: 0.5mg/mL

Degree of Substitution:

(DOS)

Eu to streptavidin labeling ratio is stated on each vial

Spectral properties: Ex/Em=325/615 nm

Streptavidin: Recombinant streptavidin (AnaSpec Cat. AS-72177)

Storage buffer: 10 mM phosphate, 150 mM NaCl, 0.05% Proclin-300, pH 7.2

Storage: Europium-streptavidin conjugate is stable for 1~2 months at 4 °C. For long-term storage,

divide conjugate into aliquots and store at -20 °C or add an equal volume of glycerol (ACS grade or higher) and store the solution at -20 °C without aliquoting. Avoid multiple thaw-freeze cycles. Protect Eu-streptavidin conjugate from heat and light. Avoid buffers that contain

Fe and Mn ions.

Instructions: Recommended working concentration for TR-FRET assays is 0.1-1µg/ml with red dyes as an

acceptor such as HiLyteTM Fluor 647, Cy5, Alexa Fluor® 647 or APC. When using this product in TR-FRET application with HiLyteTM Fluor 647, suggested instrument settings are Ex/Em=330/670nm. Optimal working concentration for other applications must be determined by an investigator. This products can be diluted in buffers with pH ranging from 5.5-9.0, containing up to 20 mM EDTA, 20 mM DTT, and up to 1% Triton X-100 without significant

loss of the luminescent activity of Europium chelate.

Background: TR-FRET (Time Resolved Fluorescence Resonance Energy Transfer) combines

advantages of time resolved fluorescence and FRET. Energy is transferred from long-lived lanthanide fluorophore to the acceptor molecule with short lived

fluorescence. Lasting Eu-labeled donors allow for time resolved

measurements to eliminate all background and autofluorescence. In addition, large Stokes shift of lanthanides results in high signal-to-noise ratio due to the

minimal overlapping between excitation and emission wavelengths.

For in vitro research use only

Related Products

Product Name	Cat. #
AnaTag Europium Protein Labeling Kit	AS-72246
AnaTag TR-FRET Protein Labeling Kit	AS-72247
Goat anti-Mouse IgG, Eu labeled, cross-absorbed	AS-72248
Goat anti-Rabbit IgG, Eu labeled, cross-absorbed	AS-72249
Mouse monoclonal anti-GST tag, IgG, Eu labeled	AS-72250
Mouse monoclonal anti-his tag, IgG, Eu labeled	AS-72251
HiLyte™ Fluor 647 acid, SE	AS-81256
Eu Iodoacetamide	AS-89351
Eu Isothiocyanate	AS-89352

References:

- Hermanson G. T. (1996), Bioconjugate Techniques, Academic Press, New York
 Lakowicz J. R. (2006), Principles of Fluorescence Spectroscopy, Springer, New York