

Recombinant Streptavidin (rStreptavidin)

ChemWhat Technical Data Sheet (TDS)

SourceRecombinant streptavidin from Streptomyces avidinii, produced in Escherichia coli.Molecular Weight:~52,000 per tetramer.Quantity:Img/5mg/1gAA Sequence:MAEAGITGTW YNQLGSTFIV TAGADGALTG TYESAVGNAE SRYVLTGRYD SAPATDGSGT ALGWTVAWKN NYRNAHSATT WSGQYVGGAE ARINTQWLLT SGTTEANAWK STLVGHDTFT KVKPSAASA2s2 of 0.1% solution:3.1Purity:> 98 % by SDS-PAGE and HPLC analysesSpecific Activity:> 17 U/mg (one unit binds 1 µg D-biotin)Physical Appearance:Sterile Filtered White lyophilized (freeze-dried) powder.Formulation:Lyophilized in 10 mM potassium phosphate buffer pH 6.5.Endotoxin:Less than 0.1 EU/µg of rStreptavidin as determined by LAL method.Proteolytic Activity:< 10 ³ U/mg protein (Azocoll, 25 °C, 24 h, pH 8.0)Reconstitution:Dissolve with double distilled waterSolubility:Clearly soluble in ddH ₂ O (OD _{405mm} < 0.1 at 10 mg/ml water)
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• 1 month, 2 to 8 °C under sterile conditions after reconstitution.
• 3 months 20 to 70 °C under starile conditions after reconstitution
• 5 months, -20 to -70° C under sterne conditions after reconstitution.
Shipment: At ambient temperature
Usage: ChemWhat Limited in UK offers this branded product for research, development or further
evaluation purposes. NOT FOR HUMAN USE.

Streptavidin

Streptavidin is a tetrameric protein composed of identic subunits. Each subunit binds one biotin molecule with a KD of $\sim 1 \times 10^{-15}$ M. The preparation contains an N- and C-terminal shortened variant (core streptavidin) with improved properties concerning homogeneity, solubility, resistance towards proteolytic degradation and accessibility of the biotin binding pocket as compared to native streptavidin.

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