

Recombinant Streptavidin, Liquid

#R00029

Size: 10 mg/100 mg

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 6 months from date of receipt, -20 to -70 °C as supplied.
- 3 months, -20 to -70 °C under sterile conditions after opening.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

Streptavidin is a tetrameric protein composed of identic subunits. Each subunit binds one biotin molecule with a KD of ~1×10-15 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.

AA Sequence

MAEAGITGTWYNQLGSTFIVTAGADGALTGTYESAVG
NAESRYVLTGRYDSAPATDGS GTALGWTVAWKNNYR
NAHSATTWSGQYVGGAEARINTQWLLTSGTTEANA
WKSTLVGHDTFTKVKPSAAS

Product Specification

Accession	P22629
Source	Escherichia coli.
Molecular Weight	~52,000 per tetramer.
A282 of 0.1% solution	3.1
Purity	> 98 % by SDS-PAGE and HPLC analyses
Specific Activity	> 17 U/mg (one unit binds 1 µg D-biotin)
Physical Appearance	Sterile Colorless liquid.
Formulation	Supplied as a 0.2 µm filtered concentrated sterile solution in 20 mM potassium dihydrogen 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)