Taiclone®
Quality Guarantee

Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Pure Streptavidin

Catalog No: tclc22683

Available Sizes

Size: 25mg

Size: 250mg

Size: 1g

Specifications

Conjugation:
Unconjugated.

Storage Buffer:
Lyophilized in 10mM potassium phosphate buffer pH 6.5.

Source:
Escherichia Coli. Streptomyces avidinii.

Purity / Grade:
>98% by SDS-PAGE and HPLC
Biotin-binding activity: >17 U/mg (Green’s modified assay)

Solubility:
It is recommended to reconstitute the lyophilized Streptavidin in sterile 18MΩ-cm H2O not less than 0.5mg/ml, which can then be further diluted to other aqueous solutions.

Storage Instruction:
The lyophilized streptavidin is stable for at least one year when stored desicated at –20°C. It is recommended to only reconstitute the amount required for use. However, any unused reconstituted streptavidin should be aliquoted in working volumes without diluting and stored at –20°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles

Calculated Molecular Weight:
52kDa.

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Sequence:
MAEAGITGTWYNQLGSTFIVTAGADGALTGTYESAVGNAESRYVLT
GRYDSAPATDGSGTALGWTVAWKNNYRNAHSATTWSGQYVGGA EARINTQWLLTSGTTEANAWKSTLVGHDTFTKVKPSAAS.

Protocol:
Reconstitute in highly pure deionized water to 1-15 mg/ml. If buffering is required, add sufficient stock solution of 10-20X phosphate buffered saline (PBS) to bring the final concentration to 1X PBS. Do not reconstitute directly in PBS.

Notes

Streptavidin is lyophilized under slight alkaline conditions from deionized water. The final lyophilized protein contains approximately 10% NaCl. Therefore, the streptavidin concentration should be determined by measuring the absobance at A280 nm and calculated using the extinction coefficient.

Product Description

Streptavidin is a biotin binding protein present in the fermentation broth of the bacterium Streptomyces avidinii. Each molecule of streptavidin can bind four molecules of biotin with a high affinity constant (Kd~10 -15). Unlike native avidin, streptavidin is not glycosylated and has a near neutral isoelectric point (pI ~ 5-6) vs a pI of 10 for native avidin.