9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Streptavidin, His

Streptavidin Recombinant, His Tag
RCP2276

Product Overview

Name	Streptavidin, His
Description	
Streptavidin Recombinant, His Tag	
Accession (Primary)	P22629
Introduction	
Streptavidin is a tetrameric protein secreted by Streptomyces avidinii which binds firmly to biotin. Streptavidin is widely used in molecular biology through its unique high affinity for the vitamin biotin. The dissociation constant (Kd) of the biotin-streptavidin complex is about ~10-15 mol/L. The strong affinity recognition of biotin and biotinylated molecules has made streptavidin one of the most important components in diagnostics and laboratory kits. The streptavidin/biotin system has one of the biggest free energies of association of yet observed for noncovalent binding of a protein and small ligand in aqueous solution (K_assoc = 10**14). The complexes are also extremely stable over a wide range of temperature and pH.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
The Streptavidin protein solution (1mg/ml) contains 20mM Tris-HCl pH7.5.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 95.0% as determined by analysis by SDS-PAGE.	
Amino acid sequence	
MVHHHHHH DP SKDSKAQVSA AEAGITGTWY NQLGSTFIVT AGADGALTGT YESAVGNAES RYVLTGRYDS APATDGSGTA LGWTVAWKNN YRNAHSATTW SGQYVGGAEA RINTQWLLTS GTTEANAWKS TLVGHDTFTK VKPSAASIDA AKKAGVNNGN PLDAVQQ.	
References	

9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Title :Laterally mobile, functionalized self-assembled monolayers at the fluorous-aqueous interface in a plug based microfluidic system: characterization and testing with membrane protein crystallization. Publication :Department of Chemistry, The University of Chicago,929 East 57th Street, Chicago, Illinois 60637 E-mail: r-ismagilov@uchicago.edu Link : http://ismagilovlab.caltech.edu/publications/Ismagilov_JACS_2009_Mobile_Functional_SAMs_JEK_Supp_Info.pdf

Precautions

Streptavidin, His is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P22629)