

Recombinant *Streptomyces avidinii* Streptavidin, His tagged, Cys Labeled

Cat. No. Streptavidin-07 Lot. No. (See product label)

SPECIFICATION

Product Overview	Cys Labeled recombinant Streptavidin with His tag was expressed in E. coli.
Species	<i>Streptomyces avidinii</i>
Source	E.coli
Conjugation/Label	N-Cys
Description	Cysteine-streptavidin (Cys-streptavidin) is an engineered streptavidin that contains a cysteine residue at the n-terminus. Cysteine-streptavidin has four identical subunits and binds specifically to biotin with an extremely high affinity. In addition, the unique cysteine residue offers site-specific conjugation. Hence, cysteine-streptavidin can create a conjugate with an optimum molar ratio. Moreover, the cys-streptavidin protein has a C-terminal polyhistidine tag to purify streptavidin and conjugates under mild conditions.
Form	Liquid
Molecular Mass	17.9 kDa (Monomer)
AA Sequence	DPSKDSKAQVSAAEAGITGTWYNQLGSTFIVTAGADGALTGTYESAVGNAESRYVL TGRYDSAPATDGSGTALGWTVAWKNNYRNAHSATTWSGQYVGGAEARINTQWLL TSGTTEANAWKSTLVGHDTFTKVKPSAASIDAACKAGVNNGNPLDAVQQ

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Biotin binding Site	4
Dissociation Constant	10 ⁻¹⁴ mol/L
Elution	Neutral pH (PBS-imidazole)
Purity	≥ 95% by SDS-PAGE
Applications	In vitro research use only Features • High affinity for biotin • High specificity for biotin • Site-specific conjugation due to the single cysteine • Mild purification due to the 8 x His tag Site-specific conjugation of Cysteine-streptavidin (His-tag) • Enzyme (HRP, phosphatase, beta-galactosidase, luciferase, glucose oxidase) • Dye (FITC, Cy5, Cy3, Alexa, ATTO, DyLight) • Fluorescent protein (R-PE, B-PE, APC, PerCP, GFP, RFP) • Oligonucleotide • Solid support (agarose, gold particle)
Storage	Short Term Storage: -20 centigrade Long Term Storage: -20 centigrade Avoid freeze/thaw cycle. Aliquot upon arrival.
Storage Buffer	20 mM HEPES, 0.5 mM TCEP, pH7.0
Concentration	> 2.0 mg/mL
Shipping	Cold packs
GENE INFORMATION	
Synonyms	Streptavidin
UniProt ID	P22629

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