

rStreptavidin

Recombinant Streptavidin

Host cell : *E. coli*

Streptavidin is a protein produced by the bacterium *Streptomyces avidinii* and has very high affinity for biotin by forming of streptavidin-biotin noncovalent binding.

This product is a highly purified recombinant protein expressed by *E. coli*.

Two types of Streptavidin "Full" (159 AA) and "Core" (127 AA) are available.

【Product information】

Type	Full	Core
Source	<i>Streptomyces avidinii</i>	
Molecular weight (SDS-PAGE)	16.5 kDa	13 kDa
Specific activity*	≥ 13 Units/mg	≥ 17 Units/mg
Appearance	Lyophilized powder	
Storage	Below - 20 °C	

*One unit will bind 1.0 ug biotin

Purity analysis
(SDS-PAGE, reduced)
1 2 M



M : Molecular weight marker
1 : Full type
2 : Core type

Streptavidin-biotin binding is known as one of the most stable noncovalent interactions and is stably maintained over wide range of temperature, pH and denaturing agent.

This binding has been widely used in the field of biotechnology such as molecular labeling, immobilization and drug delivery system and has been applied for diagnostic and research test kit. Especially in immunochemical assays, it enable to develop high sensitive detection system.



ORIENTAL YEAST CO.,LTD.

【References】

Meth Enzymol 1970, 18A, 418-424

Meth Enzymol 1990, 184, 80-89

J. Biol. Chem 1995, 270, 47, 28204-28209

Biochem. J 1989, 259, 369-376

This product is under development stage so that the specifications may be changed in future.
For commercial product, please inquiry to us.
In vitro diagnostic or research use only.

Type	Source	Molecular weight (kDa)	Specific activity (U/mg)	References	Notes



ORIENTAL YEAST CO.,LTD.

Please contact the one that best suits your need.

ORIENTAL YEAST CO., LTD.

Corporate Headquarters (Tokyo, Japan)

URL : <http://www.oyc-bio.jp/>

E-mail : fbi@oyc.co.jp

Phone : +81-3-3968-1192

Fax : +81-3-3968-4863

OYC EU B.V.

(Rotterdam, The Netherlands)

URL : <http://www.oyceu.com/>

E-mail : info@oyceu.com

Phone : +31-10-4145777

Fax : +31-10-2134919

OYC Americas, Inc.

(Vista, USA)

URL : <http://www.oycus.com/>

E-mail : service@oycus.com

Phone : +1-760-659-5943

Fax : +1-760-201-8950

ORIENTAL YEAST INDIA Pvt. Ltd.

(Mumbai, INDIA)

URL : <http://oycindia.com/>

E-mail : rpal@oyc-obd.com

Phone : +91-22-27717107

Fax : +91-22-27717107