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## Product Data Sheet

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Product Name: Avidin Recombinant

Cat. No.: GP22812

Batch No.: 1

### Product Data

Purity	>98%	Source	Corn (Zea Mays).
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.

Synonyms Avidin; AVD; AVID.

Solubility It is recommended to reconstitute the lyophilized Recombinant Avidin in sterile 18MΩ-cm H<sub>2</sub>O not less than 100μg/ml or more than 10mg/ml solutions.

Formulation

### Introduction

Avidin is a tetrameric protein of 4 identical subunits (homotetramer) which can bind to biotin with a high degree of affinity and specificity. The estimated molecular weight of Avidin in its tetrameric form is between 66-69 kDa. Avidin is produced in the oviducts of birds, reptiles and amphibians and is subsequently deposited in the whites of their eggs. In the chicken egg white, avidin makes up roughly 0.05% of total protein (approximately 1.8 mg per egg). 10% of Avidin's molecular weight is ascribed to carbohydrate content which is composed of 4-5 mannose and 3 N-acetylglucosamine residues. Avidin has at least three distinctive oligosaccharide structural type which are similar in structure and composition. The dissociation constant (KD) of avidin is approximately 10-15M, making it one of the strongest known non-covalent bonds.

### Biological Activity

13.5 units/mg protein, 1 unit binds 1μg biotin.

### Stability

Lyophilized Recombinant Avidin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Recombinant Avidin should be stored at 4°C between 2-7 days and for future use below -18°C .For long term

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

Recombinant Avidin produced in Plants is a polypeptide chain having a molecular mass of 66kDa and 16kda per subunit. The Recombinant Avidin is purified by affinity chromatographic techniques.

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