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## 32-3274: Avidin Native Protein

Alternative Name: Avidin, AVD, AVID.

## **Description**

Source: Hen's egg white. Avidin is a tetrameric protein of 4 identical subunits (homotetramer) each of which can bind to biotin with a high degree of affinity and specificity. Avidin molecular weight in its tetrameric form is estimated to be 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 four to five mannose and three 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.

## **Product Info**

Amount: 25 mg

Lyophilized Avidin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Avidin should be stored at 4°C between 2-7 days and for future Storage condition:

use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or

BSA). Please prevent freeze-thaw cycles.

## **Application Note**

It is recommended to reconstitute the lyophilized Avidin in sterile 18MΩ-cm H2O not less than 100µg/ml or more than 10mg/ml solutions. 16 units/mg protein, 1 unit binds 1µg biotin.

