

Product datasheet for **RA104GLU**

Biotin (Glucose Oxidase conjugated) Protein

Product data:

Product Type:	Native Proteins
Description:	Biotin conjugated with Glucose Oxidase, 5 mg
Concentration:	lot specific
Purity:	This product was prepared from chromatographically purified biotin.
Conjugation:	Glucose Oxidase
Buffer:	State: Lyophilized purified Ig fraction. Buffer System: 0.01 M Sodium Phosphate, 0.14 M Sodium Chloride, pH 7.4 without preservatives. Label: Glucose Oxidase (GO) Presentation Label: Glucose Oxidase
Reconstitution Method:	Restore with deionized water (or equivalent).
Preparation:	Lyophilized purified Ig fraction.
Applications:	Suitable for immunoblotting (western: 1/500-1/2,500 or dot blot), ELISA (1/8,000-1/32,000), immunoperoxidase electron microscopy and immunohistochemistry (1/200-1/1,000) as well as other Glucose Oxidase-biotin-avidin based enzymatic assays. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Glucose Oxidase and anti-Biotin.
Protein Description:	Glucose Oxidase Conjugated Biotin.
Storage:	Store vial at 2-8°C prior to restoration. For extended storage reconstitute product with 50% glycerol instead of water and then aliquot contents and freeze at -20°C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 2-8°C as an undiluted liquid. Dilute only prior to immediate use.
Stability:	Shelf life: one year from despatch.



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Summary:

Biotin is a water soluble vitamin, generally classified as a B complex vitamin, also called vitamin B4. After the initial discovery of biotin, nearly forty years of research were required to establish it as a vitamin. Biotin is required by all organisms but can only be synthesized by bacteria, yeasts, molds, algae, and some plant species. Biotin is required as prosthetic group of enzymes involved in incorporation of carbon dioxide into organic compounds. Biotin has a MW of 244 Da.