

## Human Serum albumin, Cy5 conjugated

**Catalog Number :** bs-0945P-Cy5

**Concentration:** 1mg/ml. Buffer = 0.01M TBS(pH7.4) with 0.03% Proclin300 and 50% Glycerol.

**Background:** Albumin is a soluble, monomeric protein which comprises about one-half of the blood serum protein. Albumin functions primarily as a carrier protein for steroids, fatty acids, and thyroid hormones and plays a role in stabilizing extracellular fluid volume. Mutations in this gene on chromosome 4 result in various anomalous proteins. Albumin is a globular unglycosylated serum protein of molecular weight 65,000. The human albumin gene is 16,961 nucleotides long from the putative 'cap' site to the first poly(A) addition site. It is split into 15 exons which are symmetrically placed within the 3 domains that are thought to have arisen by triplication of a single primordial domain. Albumin is synthesized in the liver as preproalbumin which has an N-terminal peptide that is removed before the nascent protein is released from the rough endoplasmic reticulum. The product, proalbumin, is in turn cleaved in the Golgi vesicles to produce the secreted albumin.

**Specificity:**

- mol wt: 69kDa
- Purity: ≥97%
- Cy5 conjugated.

**Application:**

- Excitation spectrum: 649nm
- Emission spectrum: 670nm
- Optimal working dilutions must be determined by the end user.

**Storage:** Shipped at 4°C, Store at -20°C (Avoid repeated freeze/thaw cycles).

**Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.