



# Recombinant Proteins

Defined Supplement for use in Bioprocess Manufacturing

**SRL** range of Recombinant Proteins are used as defined supplements to meet the increasing needs in biopharmaceutical, vaccine and stem cell manufacturing to improve growth, productivity and consistency for highly attractive cell culture optimization projects.

We now offer Animal Component Free (ACF) Recombinant Proteins, to avoid infectious agent transference and to ensure animal-free manufacturing for cell line production.

## Animal Component Free (ACF) Recombinant Proteins

### r-Insulin ex. Human

Insulin (lyophilized powder) is a protein hormone secreted by the Beta-cells of the Islets of Langerhans of the Pancreas in response to high sugar levels or amino acids. They have a profound effect in carbohydrate, fat and protein metabolism and are extensively used in Research and CRO activities.

**Recombinant Human Insulin** is often used as an additive to serum free media, since

- It acts as a key factor in growth regulation and differentiation of most cells in vitro cell culture.
- It regulates cellular uptake and enhances the development and dynamic growth of cells.
- It promotes the utilization & storage of glucose, amino & fatty acids.

Product Code: **72828**  
Packing Unit: **100mg, 500mg, 1gm**

**Product Features:**  
ACF (Animal Component Free)  
Potency: min. 25 USP Units/mg  
Aerobic Plate Count: <300 CFU/g

### r-Trypsin – Type Standard ACF ex. Porcine

Trysin is a proteolytic enzyme that acts to degrade protein.

**Recombinant Trysin** are generally used in cell culture application for dissociation of adherent cell types, thereby aiding in processes like harvesting of cell in vaccine production and other therapeutic and primary cell culture based application.

- They increase the yield of functionally viable cells from culture vessels, while preventing the toxicity effect induced by other non desirable proteases.
- Being Animal Component Free, they eliminate the risk of potential adventitious agents.

Product Code: **65972**  
Packing Unit: **100mg, 1g, 5g**

**Product Features:**  
ACF (Animal Component Free)  
Light tan - brown granular powder  
Aerobic Plate Count: 10000 CFU/g

## r-Albumin Human (HSA)

Human serum albumin are protein found in blood plasma. Their biological function includes normalization of the colloidal osmotic blood pressure and transportation and metabolization of molecules such as fatty acids, amino acids, steroids, hormones, metals etc.

**r-Human Serum Albumin (HSA)** products offered by us, are used as a cell culture media supplement to promote cell growth and increase recombinant protein yield, which

- Enhances maximum cell viability, growth and productivity.
- Can also be used as an additive for reduced serum or serum-free culture media and in the cryo-preservation of cells.
- Are ideal for reference applications, such as electrophoresis, when protein contaminations are not desired.
- Are ACF (Animal Component Free), showing electrophoretic purity with a single band and are offered as lyophilized powders.

<b>r-Albumin Human - Type LL ex. Yeast</b>	<b>r-Albumin Human - Type ACF ex. Plants</b>	<b>r-Albumin Human - Type EG Ex. Yeast</b>	<b>r-Albumin Human - Type LE ex. Yeast</b>
Product Code: <b>21840</b> Packing Unit: <b>100mg, 1g</b>	Product Code: <b>80879</b> Packing Unit: <b>100mg, 1g</b>	Product Code: <b>55955</b> Packing Unit: <b>100mg, 1g</b>	Product Code: <b>83428</b> Packing Unit: <b>100mg, 1g</b>
<b>Product Features:</b> Animal Component Free Low Lipid Lyophilized Powder r-Albumin Content: min.99% Monomer M.W.: ~ 67 kDa	<b>Product Features:</b> Animal Component Free Lyophilized Powder r-Albumin Content: min.97% Monomer M.W.: ~ 67 kDa	<b>Product Features:</b> Animal Component Free Excipient use Lyophilized Powder r-Albumin Content: min.99% Monomer M.W.: ~ 67 kDa	<b>Product Features:</b> Animal Component Free Low Endotoxin Lyophilized Powder r-Albumin Content: min.98% Monomer M.W.: ~ 67 kDa

## Other Recombinant Proteins & Enzymes for Biochemistry

Prdt. Code	Product Name	Specification	Packing Unit
51665	r-CRP ex. E.Coli (Recombinant C-reactive protein)	M.W. 23 kDa Purity (SDS-Page) – single band 1µg/lane Concentration > 1.0mg/ml	1mg
11997	r-Glucose-6-Phosphate-Dehydrogenase ex. Leuconostoc Mesenteroides (Recombinant)	Activity – min.400 units/mg solids (aprox. 600 units/mg protein) Lyophilized powder	5KU, 10KU
82334	r-Lactate Dehydrogenase (r-LDH) ex. E.coli (Thermostable)	Activity – min.800 units/mg protein	5000 Units, 10000 Units
87448	r-Malate Dehydrogenase (r-MDH) ex. E.coli (Thermostable)	Activity – min.400 units/mg protein	5000 Units, 10000 Units
65556	r-POD (Recombinant Peroxidase)	Activity – min.1500 U/mg protein	5KU, 10KU
64632	r-Urease ex. E.Coli (Thermostable)	Activity – min. 150units/mg protein Lyophilized powder	10000 Units
95410	r-Uricase ex. Yeast (Thermostable)	Activity – min. 3units/mg material Lyophilized powder	500 Units

*Bulk packs available on request*

Please contact:



[www.srlchem.com](http://www.srlchem.com)