Recombinant Human Serum Albumin/HSA Protein, Animal Component-Free

Catalog Number: EXRP167-ACF

For Research Use Only. Not Intended for Diagnostic or Therapeutic Use.

EXREprotein™

More information: marketing@exreprotein.com

Product Details

Biological Activity	The carrier effect of Recombinant Human Serum Albumin/HSA was determined by enhancement of cell proliferation using TF-1 human cells. Stout, *et al*. (2022) Commun Biol **5**:466. Cell proliferation in TF-1 human cells was induced in a dose-dependent manner by Recombinant Human IL-3 (Catalog # EXRP037) and demonstrated >25% enhancement in the presence of rHSA.
Purity	>98% by SDS-PAGE and quantitative densitometry by Coomassie® Blue staining
Endotoxin	<0.01 EU per 1 μg (<10 EU/mg) of the protein as determined by the LAL method
Source	Expressed in *E. coli* using an animal component-free system, with no Fetal Bovine Serum (FBS).
Accession Number	Based on P02768-1 with AI design
Sequence	Asp25-Leu609, using an AI optimized sequence
Molecular Weight	66.5 kDa (monomer, predicted)
Formulation	Lyophilized from sterile PBS with Trehalose, pH 7.4

Storage and Preparation

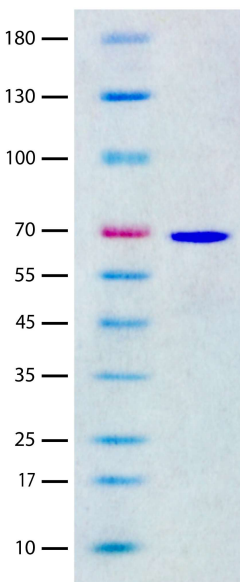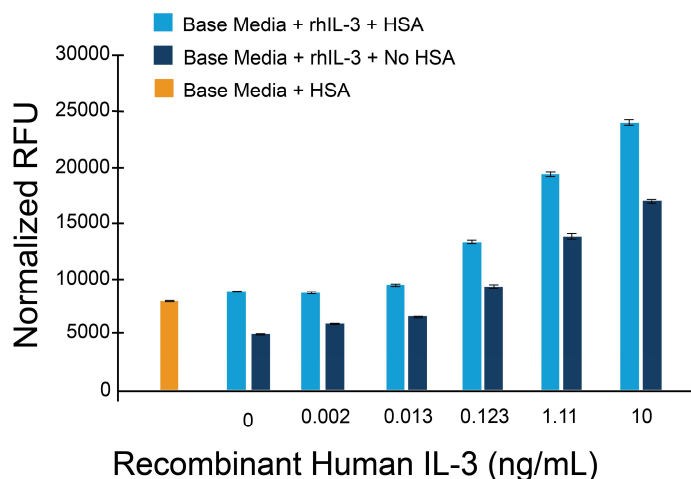|	
Shipping	Shipped at ambient temperature.
Stability and Storage	• 12 months from date of receipt at -20ºC to -70ºC, **lyophilized powder**. • 3 months at -20ºC to -70ºC under sterile conditions **after reconstitution.** **Avoid repeated freeze-thaw cycles.**
Reconstitution	Reconstitute at 1 mg/mL in sterile PBS.

Data Images

Recombinant Human Serum Albumin/HSA Protein (2 μg/lane) on SDS-PAGE under reducing (R) conditions. The gel was stained using Coomassie® Blue showing a single band at 67 kDa and purity greater than 98%.

Carrier Effect of Human Serum Albumin

Legend:
- Base Media + rhIL-3 + HSA
- Base Media + rhIL-3 + No HSA
- Base Media + HSA

X-axis: Recombinant Human IL-3 (ng/mL) — 0, 0.002, 0.013, 0.123, 1.11, 10
Y-axis: Normalized RFU

Carrier effect of rHSA is observed in the cell proliferation in TF-1 human cells treated with Recombinant Human IL-3 (Catalog # EXRP037) in the presence of 25 μg/mL rHSA. The carrier effect due to rBSA does not alter the ED_{50} in this assay.