


**Recombinant  
Human Serum Albumin**

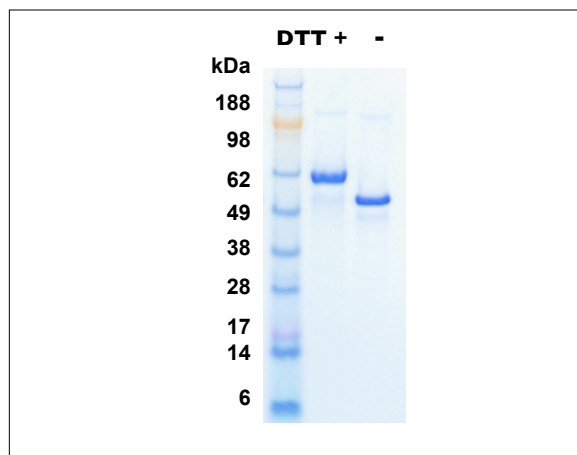
**HSA HumaXpress**

**Product Description**

- Ultra-low endotoxin
- Authentic human cell origin.
- Animal-compound free
- Increase cytokine shelf-life

The addition of a carrier to cytokine solutions can increase the stability and shelf-life of the protein. HSA<sup>HuXp</sup> has ultra low endotoxin levels and is ideal for use as a carrier protein. The use of bovine serum albumin is quite common for this purpose, but has the disadvantage of being of animal origin and quite frequently increases the endotoxin level of the resulting solution. HumanZyme has introduced recombinant Human Serum Albumin expressed in engineered human cells cultured in serum-free chemically defined media. HSA<sup>HuXp</sup> has ultra low endotoxin levels and is ideal for use as a carrier protein.

 All HumaXpress® HumanKine™ cytokines are animal-component-free and Xeno-free



**Typical Specifications**

**Species** Human  
**Expression** Human Cell Expressed  
**Activity** N/A  
**Purity** >95%  
**Endotoxin** Ultra-Low  
**Molecular Mass** 60 to 65 kDa, monomer, glycosylated

**Purity Confirmation**

The protein was resolved by SDS polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.



**Activity Assay**

None.

\* Endotoxin-free ... <1 EU/μg  
 All HumanKine™ cytokines are expressed in the HumaXpress® human cell expression system and intrinsically have low endotoxin levels.

Limited Use and Restrictions Unless otherwise stated in our catalog or other company documentation accompanying the products sold by HumanZyme Inc. are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, including resale or use in manufacture, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.