

**Product:** Heat Shock Protein 20, human, recombinant  
**Catalog #:** 12-3019  
**Amount:** 5 µg

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**SOURCE:** *Escherichia coli* Expression System  
**MOLECULAR WEIGHT:** 20 kDa (rHuHSA-20)  
**PURITY:** Greater than 95.0% as determined by:  
(a) Analysis by RP-HPLC.  
(c) Analysis by reducing and non-reducing SDS-PAGE  
Coomassie staining  
**FORM:** Purified, in 20 mM Tris/acetate pH 7.6, 10mM sodium chloride,  
0.1mM EDTA, 0.1mM PMSF and 15 mM A-mercaptoethanol,  
containing 0.1% BSA, sterile filtered  
**PROTEIN CONTENT:** Protein quantitation was carried out by two independent methods:  
- UV spectroscopy at 280 nm.  
- Analysis by RP-HPLC, using a calibrated solution of rHuHSP-20 as  
a Reference Standard  
**ENDOTOXIN:** < 0.1 ng/µg (IEU/µg) of rHuHSP-20  
**DIMERS & AGGREGATES:** < 1% as determined by silver-stained SDS-PAGE gel analysis  
**CONCENTRATION:** 0.1 mg/ml  
**IMMUNOLOGICAL ACTIVITY:** Immunoreactivity is confirmed by reaction with monoclonal mouse  
antibodies against rHuHSP20  
**STORAGE:** -18°C (aliquot), avoid repeated freeze-thaw cycles

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