

**HP, 19-347aa Human, His tag, E.coli**

**Cat.NO.: TP02489**

3th Edition

**Synonyms:**Haptoglobin isoform 2 preproprotein , BP, HP2ALPHA2, HPA1S

**Description:**HP, as known as haptoglobin, is processed to yield both alpha and beta chains, which subsequently combine as a tetramer to produce haptoglobin. In blood plasma, haptoglobin binds free hemoglobin (Hb) released from erythrocytes with high affinity and thereby inhibits its oxidative activity. The haptoglobin-hemoglobin complex will then be removed by the reticuloendothelial system (mostly the spleen). Recombinant human HP protein, fused to His-tag at N-terminus, was expressed in E.coli

**Form:**Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea

**Molecular Weight:**39.0 kDa(352aa)

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSDSGNDVTDIADDGCPKPPEIAHGYVEHSVRYQCKNYYKLRTGEGDVYTLN  
NEKQWINKAVGDKLPECEAVCGKPKNPANPVQRILGGHLDAGSFPWQAKMVSHHNLTGATLINEQWLLTTAKN  
LFLNHSENATAKDIAPTLTLYVGKKQLVEIEKVVLHPNYSQVDIGLIKQKQSVNERVMPICLPSKDYAEVGRVGYV  
SGWGRNANFKFTDHLKYVMLPVADQDQCIRHYEGSTVPEKKTPKSPVGVQPILNEHTFCAGMSKYQEDTCYGDA  
GSAFAVHDL EEDTWYATGILSFDKSCAVAEYGVYVKVTSIQDWVQKTIAEN

**Purity:**> 95% by HPLC

**Concentration:**0.5mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.