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**Haptoglobin  $\beta$  chain      Human, Recombinant, *E. coli***

**Cat. No.:** RCP9185      **Size:** 10 $\mu$ g

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**Synonym:** Hp, Bp.

**Description:** Haptoglobin is a glycoprotein secreted in the blood plasma that binds free haemoglobin thereby inhibiting its oxidative activity and preventing iron loss following haemolysis. Haptoglobin also regulates the activity of many cell types of the immune system and is an extracellular chaperone. Haptoglobin is produced mostly by hepatocytes but also by other tissues: e.g. skin, lung and kidney. Haptoglobin is a tetramer of two  $\alpha$ - and two  $\beta$ -chains, connected by disulfide bridges. The chains originate from a common precursor protein, which is proteolytically cleaved during protein synthesis.

**RANDOX** recombinant Haptoglobin  $\beta$ -chain comprises a 245 amino acid fragment (162-406) corresponding to the mature haptoglobin  $\beta$ -chain and is expressed in *E. coli* with an amino-terminal hexahistidine tag. This product is for research use only and is not intended for diagnostic or therapeutic use.

**Form:** Liquid.  
Supplied in 1x Laemmli Buffer (25mM Tris-HCl pH6.8, 50mM DTT, 1% (w/v) SDS, 0.1% (w/v) Bromophenol Blue, 2.5% Glycerol).

**Purity:** Single band on Western blot.

**References:** Yang, F. *et al.*, *Proc. Natl. Acad. Sci. USA* **80** (19):5875-5879 (1983).

Kurosky, A. *et al.*, *Proc. Natl. Acad. Sci. USA* **77** (6): 3388-3392 (1980).