



# Recombinant Macaca mulatta (Rhesus macaque) Hemoglobin subunit beta (HBB)

<b>Product Code</b>	CSB-EP010150MOW
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P02026
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Macaca mulatta (Rhesus macaque)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	VHLTPEEKNA VTTLWGKVVN DEVGGEALGR LLLVYPWTQR FFESFGDLSS PDAVMGNPKV KAHGKKVLGA FSDGLNHLDN LKGTFAQLSE LHC DKLHVDP ENFKLLGNVL VCVLAHFGK EFTPQVQAAY QKVVAGVANA LAHKYH
<b>Source</b>	E.coli
<b>Target Names</b>	HBB
<b>Protein Names</b>	Recommended name: Hemoglobin subunit beta Alternative name(s): Beta-globin Hemoglobin beta chain
<b>Expression Region</b>	1-146
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	The alpha (HBA) and beta (HBB) loci determine the structure of the 2 types of polypeptide chains in adult hemoglobin, Hb A. The normal adult hemoglobin tetramer consists of two alpha chains and two beta chains. Mutant beta globin causes sickle cell anemia. Absence of beta chain causes beta-zero-thalassemia. Reduced amounts of detectable beta globin causes beta-plus-thalassemia. The order of the genes in the beta-globin cluster is 5 -epsilon -- gamma-G -- gamma-A -- delta -- beta--3 .
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.