

Hemoglobin (HB) Active Protein | HB active protein

Active Hemoglobin (HB)

CATALOG # AAA161849	HOST Hamster	APPLICATIONS Activity Assay, Cell Culture
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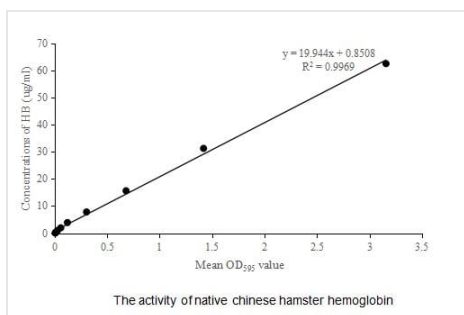
PRODUCT SYNONYMS

Hemoglobin (HB); Active Hemoglobin (HB); Hemoglobin; Hgb; Haemoglobin; Heterotetramer(alpha beta)₂; HB active protein

PRODUCT SPECIFICATIONS

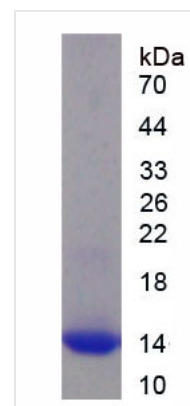
Host	Hamster
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Applicable Applications for HB active protein	Activity Assay, Cell Culture
Species	Chinese hamster
Expression System	Natural extract
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Research Area	Metabolic pathway, Infection immunity, Hematology, Neuro science
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

IMAGES



Bioactivity

Hemoglobin (HB) is a protein in red blood cells which contains iron. It is used to transport oxygen around the human body. Hemoglobin is found in the red blood cells of almost all vertebrates. Hemoglobin has peroxidase activity. In the presence of hydrogen peroxide, hemoglobin can catalyze the substrates 3,3', 5,5' - tetramethylbenzidine (TMB) to produce a blue compound which has a maximum absorption at 595 nm. Thus, the activity of native Chinese hamster hemoglobin was measured by its ability to catalyze the substrates of TMB. The reaction was performed in PBS, pH 7.4 (Assay Buffer), initiated by addition 40 uL of various concentrations of HB (diluted by Assay Buffer) to 160 uL of TMB. Incubated at 37 degree C for 20min, then read at a wavelength of 595 nm immediately. The result was shown in figure 1, and the OD value was in a linear relationship with the concentration of HB.



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for HB active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	122440
UniProt Accession #	P01945; P02094
Molecular Weight	15,248 Da
NCBI Official Full Name	Hemoglobin subunit alpha
UniProt Protein Name	Hemoglobin subunit alpha
UniProt Gene Name	HBA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hamster-active-protein/hemoglobin-hb/161849>