

## HBAZ Protein, Human, Recombinant (His)

## General Information

Synonyms:	Hemoglobin Subunit Zeta; Hemoglobin $\zeta$ Chain; Hemoglobin Zeta Chain; HBZ2; Hemoglobin Subunit $\zeta$ ; Zeta-Globin; HBAZ; $\zeta$ -Globin; HBZ
Protein Construction:	Met1-Arg142
Species:	Human
Expression Host:	E. coli
Accession:	P02008
Molecular Weight:	15 KDa (reducing condition)
AA Sequence:	Met1-Arg142

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) as determined by LAL test.
Formulation:	Supplied as a 0.2 $\mu$ m filtered solution of 20 mM Tris-HCl, 100 mM NaCl, 2 mM DTT, 10% Glycerol, pH 8.0.

## Preparation and Storage

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

Proteins are shipped with blue ice.

## Protein Background

Hemoglobin Subunit Zeta (HBZ) is a member of the Globin family. The zeta chain is an alpha-type chain of mammalian embryonic Hemoglobin that is synthesized primarily in the yolk sac of the early embryo, while alpha-globin is produced throughout fetal growth and adult life. The HBZ gene consists of five functional genes and two pseudogenes, the order of genes is 5-zeta-pseudozeta-mu-pseudoalpha-1-alpha-2-alpha-1-theta-1-3.

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