

# Recombinant Mouse HLX Protein

**For Research Use Only**

## 1. Basic Product Information

Catalog No.: REP51650

Size: 10ug, 100ug

Protein Name: H2.0-like homeobox protein (Homeobox protein HLX1)

Synonym: Hlx, Hlx1

UniProt ID: Q61670

UniProt Link: [www.uniprot.org/uniprotkb/Q61670/entry](http://www.uniprot.org/uniprotkb/Q61670/entry)

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 476 AA

Molecular Weight: 50 KD

Protein Tag: C-terminal His6

## 2. Amino Acid Sequence

MFAAGLAPFYASNFLWSAAYCSSAGPGGCSFALDPAAVKKPSFCIADILHAGVGEPGPAAEGLVG  
ASAALTAHLGSLVPHASFQAAARSPLRPTPVVAPSEVPAGFPQRLSPLSAAFHQHLPQQSPTQQQQ  
PQQQPPPPPRAVSLQPPTSGTRVPHHSGSAPAPSSKDLKFGIDRILSAEFDPKVKEGNTLRDLTSL  
LTGGRPAGVHLAQLPSAGQFFASLDPISEASAILSPLSSNPRNSVQHQQFQDTFPGPYAVLTKDTMP  
QTYKRKRWSRAVFSNLQRKGLEKRFEIQKYVTKPDRKQLAAMLGLTDAQVKVWFQNRMRMKWRH  
SKEAQAQKDKDKEAGEKPSGGVPAEGEREERSPSRSEGEAESESSDSESLDMAPSDTERTEGTER  
SLHQTTVIKASAAGALITASSTSGSSFSFSSTSSLGSGNTHVGSASSLGGNCSELPsAHQPSVTSS  
PQSPEIAQAPLAGL

## 3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

## 4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

## 5. Product Description

This product is recombinant H2.0-like homeobox protein (Homeobox protein HLX1) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

**Protein Function:** Transcription factor required for TBX21/T-bet-dependent maturation of Th1 cells as well as maintenance of Th1-specific gene expression. Involved in embryogenesis and hematopoiesis.

**Subcellular Localization:** Nucleus .

## 6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.