Recombinant LBX1 protein (His tag)

Catalog Number	540046
Synonyms	Ladybird homeobox protein homolog 1
Species	Human
Expression System	E. coli
Accession	P52954
Molecular Weight	Predictes a molecular mass of 14.87 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	84-197
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 84-197 aa (P52954) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant human Transcription factor LBX1 (Ladybird homeobox protein homolog 1) fragment (residues 84-197) is a highly stable and soluble protein unit designed for structural and biochemical studies. This 114-amino acid fragment enables researchers to investigate the molecular mechanisms underlying LBX1's role in neural and muscle development. Transcription factor LBX1 is essential for the development of GABAergic interneurons in the dorsal horn of the spinal cord and for the migration and maturation of hypaxial muscle precursor cells, which contribute to limb muscles, diaphragm, and hypoglossal cord formation. As a nuclear protein, LBX1 functions as a key regulator in developmental processes, making it a significant target for neurobiology and myogenesis research.