Recombinant PBX4 protein (His tag)

Catalog Number	548171
Synonyms	Homeobox protein PBX4
Species	Human
Expression System	E. coli
Accession	Q9BYU1
Molecular Weight	Predictes a molecular mass of 33.78 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 34 kDa band.

Product Information

Sequence Region	1-283
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 1-283 aa (Q9BYU1) 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 Pre-B-cell leukemia transcription factor 4 (Homeobox protein PBX4) fragment (amino acids 1-283) is a high-purity protein designed to encompass the complete PBC functional domain. This product serves as an essential tool for investigating domain-specific mechanisms in transcriptional regulation and developmental processes. Pre-B-cell leukemia transcription factor 4 (PBX4), encoded by the PBX4 gene in Homo sapiens, is a nuclear protein involved in transcriptional regulation. As a member of the homeobox protein family, PBX4 plays critical roles in developmental processes and cellular differentiation through its DNA-binding capabilities. The subcellular localization of PBX4 is exclusively nuclear, where it participates in gene expression control. The recombinant fragment (amino acids 1-283) contains the complete PBC domain (amino acids 14-209), enabling focused studies on this essential functional region.