Recombinant PCGF2 protein (His tag)

Catalog Number	542281
Synonyms	DNA-binding protein Mel-18; RING finger protein 110; Zinc finger protein 144
Species	Human
Expression System	E. coli
Accession	P35227
Molecular Weight	Predictes a molecular mass of 28.70 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 31 kDa band.

Product Information

Sequence Region	1-233
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 1-233 aa (P35227) 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 PCGF2 (Polycomb group RING finger protein 2) fragment (residues 1-233) is a high-purity protein designed for structural and biochemical studies. This stable, soluble fragment enables investigation into the transcriptional repressor functions of PCGF2, including its role in chromatin remodeling and cell proliferation regulation, offering a reliable tool for cancer and developmental biology research. PCGF2, also known as DNA-binding protein Mel-18 or Zinc finger protein 144, is a transcriptional repressor that specifically binds to the DNA sequence 5'-GACTNGACT-3'. It functions as a tumor suppressor and plays critical roles in controlling cell proliferation, neural development, and hematopoietic stem cell regulation. As a component of the Polycomb group (PcG) multiprotein PRC1-like complex, PCGF2 contributes to maintaining the repressive state of genes, including Hox genes, through chromatin remodeling and monoubiquitination of histone H2A at Lys-119. It also modulates RNF2 ubiquitin ligase activity within this complex. The protein is localized to the nucleus, where it executes its regulatory functions in gene expression and epigenetic modifications.