Recombinant PHC1 protein (His tag)

Catalog Number	537913
Synonyms	hPH1; Early development regulatory protein 1
Species	Human
Expression System	E. coli
Accession	P78364
Molecular Weight	Predictes a molecular mass of 9.99 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	931-1004
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 931-1004 aa (P78364) 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 Polyhomeotic-like protein 1 (hPH1) fragment (residues 931-1004) is a high-purity protein designed to encompass the full SAM domain. This fragment serves as an essential tool for investigating the domain-specific mechanisms of hPH1 in transcriptional regulation and chromatin remodeling. Polyhomeotic-like protein 1 (hPH1), encoded by the PHC1 gene, is a key component of the Polycomb group (PcG) multiprotein PRC1-like complex. This complex maintains the transcriptionally repressive state of numerous genes, including Hox genes, throughout development by mediating chromatin remodeling and histone modification—specifically monoubiquitination of histone H2A at 'Lys-119'. hPH1 is also involved in regulating cellular levels of GMNN expression. The protein localizes to the nucleus, underscoring its role in epigenetic regulation and gene silencing processes critical for development.