Recombinant PHC2 protein (His tag)

Catalog Number	545390
Synonyms	hPH2; Early development regulatory protein 2
Species	Human
Expression System	E. coli
Accession	Q8IXK0
Molecular Weight	Predictes a molecular mass of 9.65 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	789-858
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 789-858 aa (Q8IXK0) 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 2 (hPH2) Fragment (aa 789-858): A high-purity protein fragment encompassing the full SAM domain, designed for targeted studies of chromatin remodeling and epigenetic regulation mechanisms. Polyhomeotic-like protein 2 (PHC2) is a crucial component of the Polycomb group (PcG) multiprotein PRC1-like complex, which maintains the transcriptionally repressive state of developmental genes like Hox genes through chromatin remodeling. The complex mediates monoubiquitination of histone H2A at 'Lys-119', enabling heritable changes in gene expression. Located in the nucleus and often co-localizing in polycomb bodies, PHC2 plays a key role in epigenetic regulation during development. The provided fragment (aa 789-858) includes the complete SAM domain, facilitating focused research on domain-specific interactions and functions within this regulatory pathway.