Recombinant SCML4 protein (His tag)

Catalog Number	550448
Species	Human
Expression System	E. coli
Accession	Q8N228
Molecular Weight	Predictes a molecular mass of 16.66 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	73-209
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 73-209 aa (Q8N228) 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 Sex comb on midleg-like protein 4 (SCML4) fragment (residues 73-209) is a highly stable and soluble protein unit designed for structural and biochemical studies. This 137-amino acid fragment, derived from the full-length SCML4 protein, enables researchers to investigate the molecular mechanisms of Polycomb group-mediated gene regulation with enhanced experimental utility. Sex comb on midleg-like protein 4 (SCML4) is a putative Polycomb group (PcG) protein that functions in transcriptional repression during development. As a member of the PcG protein family, SCML4 participates in forming multiprotein complexes that maintain the repressive state of homeotic genes, ensuring proper developmental patterning. The protein localizes to the nucleus, where it exerts its regulatory functions. The selected fragment (73-209) represents a computationally optimized region that preserves structural integrity while improving solubility, making it ideal for mechanistic studies of PcG protein function.