Recombinant MAML1 protein (His tag)

Catalog Number	540901
Synonyms	Mam-1
Species	Human
Expression System	E. coli
Accession	Q92585
Molecular Weight	Predictes a molecular mass of 10.01 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	1-70
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 1-70 aa (Q92585) 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 Mastermind-like protein 1 (Mam-1) fragment (residues 1-70) from Homo sapiens, designed for structural and biochemical studies. This stable, soluble fragment supports research into NOTCH signaling and transcriptional regulation. Mastermind-like protein 1 (Mam-1), encoded by the MAML1 gene, functions as a transcriptional coactivator for NOTCH proteins, amplifying NOTCH-induced transcription of targets like HES1. It enhances phosphorylation and proteolytic turnover of the NOTCH intracellular domain via CDK8 interaction, binds CREBBP/CBP to promote nucleosome acetylation at NOTCH enhancers, and regulates NOTCH-mediated lymphoid cell fate decisions in hematopoietic development. The protein localizes to nuclear speckles in a punctate pattern, underscoring its role in nuclear transcriptional machinery.