Recombinant MAML3 protein (His tag)

Catalog Number	545706
Synonyms	Mam-3
Species	Human
Expression System	E. coli
Accession	Q96JK9
Molecular Weight	Predictes a molecular mass of 12.75 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	71-165
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 71-165 aa (Q96JK9) 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	Introducing the recombinant Mastermind-like protein 3 (Mam-3) fragment (residues 71-165), a highly stable and soluble unit derived from human MAML3. This fragment is optimized for structural and biochemical studies, offering researchers a reliable tool to investigate the transcriptional coactivation mechanisms of NOTCH signaling pathways. Mastermind-like protein 3 (Mam-3), encoded by the MAML3 gene in humans, functions as a transcriptional coactivator for NOTCH proteins. It plays a critical role in amplifying NOTCH-induced transcription, as demonstrated by its enhancement of HES1 expression. The protein is localized to nuclear speckles, where it exhibits a punctate distribution, underscoring its involvement in nuclear transcriptional regulation. This fragment (71-165) was computationally selected to provide a stable, soluble region ideal for elucidating protein interactions and structural features without the complexities of the full-length protein.