Recombinant HEXI2 protein (His tag)

Catalog Number	548010
Synonyms	Hexamethylene bis-acetamide-inducible protein 2
Species	Human
Expression System	E. coli
Accession	Q96MH2
Molecular Weight	Predictes a molecular mass of 13.77 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band.

Product Information

Sequence Region	187-286
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 187-286 aa (Q96MH2) 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 HEXIM2 Fragment (residues 187-286) is a high-purity protein product designed for structural and biochemical studies. This 100-amino acid fragment, derived from the full-length HEXIM2 protein, offers a stable and soluble unit ideal for investigating transcriptional regulation mechanisms. HEXIM2 (Hexamethylene bis-acetamide-inducible protein 2) is a transcriptional regulator that functions as a general RNA polymerase II transcription inhibitor. As a core component of the 7SK RNP complex, it cooperates with 7SK snRNA to sequester P-TEFb in an inactive 7SK snRNP complex, thereby preventing RNA polymerase II phosphorylation and subsequent transcriptional elongation. The protein is localized to the nucleus, where it performs its regulatory functions in gene expression control.