Recombinant DPRX protein (His tag)

Catalog Number	550575
Species	Human
Expression System	E. coli
Accession	A6NFQ7
Molecular Weight	Predictes a molecular mass of 10.78 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	1-77
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 1-77 aa (A6NFQ7) 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 Divergent paired-related homeobox (DPRX) Fragment (1-77) is a high-quality, soluble protein derived from Homo sapiens, designed for structural and biochemical studies. This 77-amino acid fragment was computationally optimized for stability and solubility, making it an ideal tool for investigating the repressive transcription factor functions of DPRX in a research setting. Divergent paired-related homeobox (DPRX) is a transcription factor that functions as a repressor, playing a role in gene regulation as supported by experimental evidence (PubMed:27412763). The full-length protein is localized to the nucleus, indicating its involvement in nuclear processes such as transcriptional control. This recombinant fragment provides a focused approach to study DPRX's functional domains and mechanisms without the complexities of the full-length protein.