Recombinant NDF4 protein (His tag)

Catalog Number	543678
Synonyms	NeuroD4; Class A basic helix-loop-helix protein 4; bHLHa4; Protein atonal homolog 3; ATH-3; Atoh3
Species	Human
Expression System	E. coli
Accession	Q9HD90
Molecular Weight	Predictes a molecular mass of 13.51 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	71-174
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 71-174 aa (Q9HD90) 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	This product is a recombinant fragment of the human Neurogenic differentiation factor 4 (NeuroD4), encompassing amino acids 71-174. This fragment is specifically designed to include the complete bHLH domain, making it an ideal tool for investigating the domain's role in transcriptional activation and neuronal differentiation. Neurogenic differentiation factor 4 (NeuroD4) is a transcription factor in humans that functions as a transcriptional activator and plays a critical role in mediating neuronal differentiation. It is particularly required for regulating amacrine cell fate specification in the retina. The protein is localized to the nucleus, consistent with its function in gene regulation. The provided fragment, which includes the bHLH domain, allows researchers to study the specific mechanisms by which NeuroD4 binds DNA and influences neuronal development and cell specification.