Recombinant HES4 protein (His tag)

Catalog Number	549099
Synonyms	hHES4; Class B basic helix-loop-helix protein 42; bHLHb42; Hairy and enhancer of split 4; bHLH factor Hes4
Species	Human
Expression System	E. coli
Accession	Q9HCC6
Molecular Weight	Predictes a molecular mass of 14.34 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	38-150
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 38-150 aa (Q9HCC6) 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 HES-4 Protein Fragment (38-150) is a high-purity, functional fragment of the Transcription factor HES-4, encompassing the Orange domain. This product is an essential tool for researchers studying transcriptional repression mechanisms and domain-specific interactions in cellular processes. Transcription factor HES-4 (HES4) is a transcriptional repressor in humans that binds DNA at N-box motifs (5'-CACNAG-3'), playing a role in regulating gene expression. It is localized to the nucleus, where it functions in key signaling pathways, such as Notch signaling, influencing cell differentiation and development. The provided fragment (residues 38-150) includes the Orange domain (110-143), enabling focused investigation into this domain's structural and functional contributions to HES-4's repressor activity.