Recombinant HES2 protein (His tag)

Catalog Number	549408
Synonyms	Class B basic helix-loop-helix protein 40; bHLHb40; Hairy and enhancer of split 2
Species	Human
Expression System	E. coli
Accession	Q9Y543
Molecular Weight	Predictes a molecular mass of 15.67 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band.

Product Information

Sequence Region	1-126
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 1-126 aa (Q9Y543) 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-2 (1-126) Fragment: A high-purity protein encompassing the bHLH and Orange domains of Transcription factor HES-2, designed for targeted functional studies of transcriptional repression mechanisms. Transcription factor HES-2 (HES2) functions as a transcriptional repressor for genes dependent on bHLH proteins for their expression. It is localized to the nucleus, where it modulates gene regulation through its conserved domains. This recombinant fragment enables focused investigation into the structural and functional roles of its bHLH and Orange domains in repressive transcriptional complexes.