Recombinant SP8 protein (His tag)

Catalog Number	549819
Synonyms	Specificity protein 8
Species	Human
Expression System	E. coli
Accession	Q8IXZ3
Molecular Weight	Predictes a molecular mass of 13.45 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	338-439
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 338-439 aa (Q8IXZ3) 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 Transcription Factor Sp8 (Specificity Protein 8) Fragment (338-439) is a high-purity, stable protein designed for structural and biochemical studies. This 102-amino acid fragment offers a soluble and functional unit ideal for investigating Sp8's role in limb development and transcriptional regulation. Transcription factor Sp8 is essential for embryonic limb development, where it positively regulates FGF8 expression in the apical ectodermal ridge (AER) to promote limb outgrowth. As a nuclear protein, Sp8 functions in gene regulation, making it a key target for research on developmental biology and signaling pathways. The provided fragment (338-439) was computationally selected to ensure stability and solubility, enabling reliable use in experimental applications without domains that may complicate analysis.