Recombinant SEBOX protein (His tag)

Catalog Number	551276
Synonyms	Homeobox OG-9; Skin-, embryo-, brain- and oocyte-specific homeobox
Species	Human
Expression System	E. coli
Accession	Q9HB31
Molecular Weight	Predictes a molecular mass of 10.63 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	1-79
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 1-79 aa (Q9HB31) 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	Introducing our high-purity recombinant human Homeobox protein SEBOX (OG-9) fragment (amino acids 1-79), a stable and soluble protein unit designed for structural and biochemical studies of this skin-, embryo-, brain-, and oocyte-specific transcription factor. Homeobox protein SEBOX (UniProt: Q9HB31) is a human transcription factor implicated in the specification of mesoderm and endoderm during development. It exhibits tissue-specific expression patterns, particularly in skin, embryo, brain, and oocyte tissues. The protein localizes to the nucleus, consistent with its role in transcriptional regulation. This recombinant fragment (1-79) was computationally selected to provide a stable, soluble unit ideal for investigating protein structure, interactions, and functional mechanisms in a controlled experimental setting.