Recombinant GSC protein (His tag)

Catalog Number	547101
Species	Human
Expression System	E. coli
Accession	P56915
Molecular Weight	Predictes a molecular mass of 12.57 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	134-221
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 134-221 aa (P56915) 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 Homeobox Protein Goosecoid (GSC) Fragment (aa 134-221) is a high-quality, stable, and soluble protein fragment designed for structural and biochemical studies. This 88-amino acid fragment, derived from the Homo sapiens GSC protein, represents a computationally optimized region ideal for investigating the regulatory roles of goosecoid in embryonic development and cell lineage specification. The full-length Homeobox protein goosecoid (UniProt ID: P56915) is a nuclear protein that regulates chordin (CHRD) and plays a critical role in spatial programming during organogenesis. It is involved in defining structural components of the middle ear, such as the tympanic ring, in concert with NKX3-2. Additionally, goosecoid contributes to neural crest cell fate specification and mesoderm cell lineage determination in mammals, as supported by studies (e.g., PubMed:24290375). Its subcellular localization in the nucleus underscores its function in transcriptional regulation during embryonic development.