Recombinant GSB protein (His tag)

Catalog Number	532017
Synonyms	BSH9; Protein gooseberry distal
Species	Drosophila melanogaster
Expression System	E. coli
Accession	P09082
Gene ID	38005
Molecular Weight	Predictes a molecular mass of 17.28 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	1-143
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 1-143 aa (P09082) 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 Drosophila melanogaster Protein gooseberry (BSH9) fragment (residues 1-143), a stable and soluble unit ideal for structural and biochemical studies. This fragment represents the distal protein gooseberry, which plays a key role in defining embryonic segment polarity through its segmentally repeating expression pattern. Protein gooseberry (BSH9), encoded by the gsb gene in Drosophila melanogaster, is expressed in a segmentally repeating pattern and is essential for establishing the polarity of embryonic segments during development. The full-length protein localizes to the nucleus, where it functions in regulatory processes critical for embryonic patterning. This recombinant fragment has been computationally selected to provide a stable and soluble representation of the protein, facilitating investigations into its structural and functional properties without the complexities of the full-length molecule.