Recombinant GASP3 protein (His tag)

Catalog Number	545223
Synonyms	Protein BHLHb9; bHLHb9; Transcription regulator of 60 kDa; p60TRP
Species	Human
Expression System	E. coli
Accession	Q6PI77
Molecular Weight	Predictes a molecular mass of 30.84 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 31 kDa band.

Product Information

Sequence Region	291-547
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 291-547 aa (Q6PI77) 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 G protein-coupled receptor associated sorting protein 3 (GPRASP3) fragment (291-547) is a high-purity protein designed for structural and biochemical studies. This 257-amino acid fragment represents a stable and soluble region of the protein, ideal for investigating its role in neurosynaptogenesis and APP processing regulation. GPRASP3, also known as Protein BHLHb9 or p60TRP, is a survival and differentiation promoting protein that plays a critical role in regulating neurosynaptogenesis. It induces phosphatase PP2A activity, leading to APP dephosphorylation and inhibition of BACE1-mediated processing of APP, which has implications for understanding neuronal development and function. The protein is primarily localized in the cytoplasm with lower levels detected in the nucleus, suggesting potential roles in both cellular compartments. The selected fragment (291-547) was computationally optimized to provide a stable, soluble representation of the protein for experimental applications.