Recombinant FOH1B protein (His tag)

Catalog Number	549379
Synonyms	NAALADase; Cell growth-inhibiting gene 26 protein; Prostate-specific membrane antigen-like protein; Putative folate hydrolase 1B
Species	Human
Expression System	E. coli
Accession	Q9HBA9
Molecular Weight	Predictes a molecular mass of 51.70 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 52 kDa band.

Product Information

Sequence Region	1-442
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1-442 aa (Q9HBA9) 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 FOLH1B (NAALADase/Folate Hydrolase 1B) Fragment (aa 1-442) – A high-purity, soluble protein fragment designed for structural and functional studies, offering a stable representation of key enzymatic domains for research in folate metabolism and neuropeptide regulation. The full-length Putative N-acetylated-alpha-linked acidic dipeptidase (NAALADase), encoded by the FOLH1B gene, functions as a bifunctional enzyme with folate hydrolase and NAALADase activities, playing roles in folate processing and neuropeptide hydrolysis. It also exhibits dipeptidyl-peptidase IV-type activity, suggesting involvement in peptide signaling pathways. In human cells, this protein is localized to the cytoplasm, where it contributes to intracellular metabolic processes. The provided recombinant fragment encompasses residues 1-442, representing a computationally optimized stable unit for investigating its enzymatic mechanisms and biochemical properties.