Recombinant BPIB3 protein (His tag)

Catalog Number	548941
Synonyms	Ligand-binding protein RYA3; Long palate, lung and nasal epithelium carcinoma-associated protein 3
Species	Human
Expression System	E. coli
Accession	P59826
Molecular Weight	Predictes a molecular mass of 42.31 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 42 kDa band.

Product Information

Sequence Region	92-472
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 92-472 aa (P59826) 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 BPI fold-containing family B member 3 (BPIFB3) fragment (amino acids 92-472) from Homo sapiens, a stable and soluble protein unit ideal for investigating odorant binding, transport mechanisms, and mucosal defense functions in structural and biochemical studies. BPI fold-containing family B member 3, also known as Ligand-binding protein RYA3 or Long palate, lung and nasal epithelium carcinoma-associated protein 3, is a human protein that may recognize and bind specific odorants. It is proposed to act as a carrier molecule, facilitating the transport of odorants across the mucus layer to access receptor sites. Additionally, it may serve as a primary defense mechanism by removing harmful odorants or pathogenic microorganisms from the mucosa or clearing excess odorants to enable new stimuli reception. The protein is secreted and, according to some studies, may also localize to the cytoplasm, highlighting its role in mucosal immunity and sensory perception.