Recombinant PATE4 protein (His tag)

Catalog Number	548922
Synonyms	PATE-like protein B; PATE-B
Species	Human
Expression System	E. coli
Accession	P0C8F1
Molecular Weight	Predictes a molecular mass of 10.49 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	23-98
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 23-98 aa (P0C8F1) 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 PATE4 Protein Fragment (PATE-B, residues 23-98) is a high-purity, functional fragment designed for studying nicotinic acetylcholine receptor modulation and sperm motility enhancement. This fragment fully encompasses the UPAR/Ly6 domains, making it an ideal tool for targeted research on these specific functional regions. Prostate and testis expressed protein 4 (PATE-B), encoded by the PATE4 gene, is a human protein that modulates nicotinic acetylcholine receptor function and may enhance sperm motility. It is naturally secreted and localized to cytoplasmic vesicles, secretory vesicles, and the acrosome, indicating roles in cellular communication and reproductive biology. The full-length protein's involvement in receptor interaction and sperm function highlights its significance in neurological and reproductive research.