Recombinant PGBD1 protein (His tag)

Catalog Number	545709
Synonyms	Cerebral protein 4
Species	Human
Expression System	E. coli
Accession	Q96JS3
Molecular Weight	Predictes a molecular mass of 50.94 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 54 kDa band.

Product Information

Sequence Region	388-809
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 388-809 aa (Q96JS3) 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 PiggyBac transposable element-derived protein 1 (PGBD1) fragment (residues 388-809) is a high-quality protein preparation designed for structural biology and biochemical studies. This 422-amino acid fragment was computationally selected to provide optimal stability and solubility while maintaining key structural features of the full-length protein. PiggyBac transposable element-derived protein 1 (also known as Cerebral protein 4) is encoded by the PGBD1 gene in humans. As a transposable element-derived protein, PGBD1 represents an important class of proteins that have been domesticated by the host genome and may play roles in genetic regulation and genome evolution. The specific functional characteristics and subcellular localization of the full-length protein require further investigation. The selected fragment (388-809) was strategically designed based on structural predictions to represent a stable and soluble protein unit, making it particularly valuable for researchers studying protein structure-function relationships and conducting in vitro assays.