Recombinant PGCB protein (His tag)

Catalog Number	543378
Synonyms	Brain-enriched hyaluronan-binding protein; BEHAB; Chondroitin sulfate proteoglycan 7
Species	Human
Expression System	E. coli
Accession	Q96GW7
Molecular Weight	Predictes a molecular mass of 37.15 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 37 kDa band.

Product Information

Sequence Region	34-356
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 34-356 aa (Q96GW7) 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 Brevican Core Protein (amino acids 34-356) is a high-purity fragment encompassing the key functional domains of this brain-enriched hyaluronan-binding protein. This carefully designed construct includes the complete Ig-like V-type, Link 1, and Link 2 domains, making it an ideal tool for investigating extracellular matrix interactions and neural development mechanisms. Brevican core protein, also known as Brain-enriched hyaluronan-binding protein (BEHAB), plays a crucial role in the terminally differentiating and adult nervous system during postnatal development. As a chondroitin sulfate proteoglycan, it functions to stabilize interactions between hyaluronan (HA) and brain proteoglycans, contributing to extracellular matrix organization in neural tissues. The protein exhibits distinct subcellular localization patterns, with isoform 1 being secreted into the extracellular space and matrix, while isoform 2 is membrane-anchored via GPI linkage. These characteristics highlight Brevican's importance in maintaining structural integrity and functional organization within the nervous system microenvironment.