Recombinant ACRBP protein (His tag)

Catalog Number	549028
Synonyms	Acrosin-binding protein, 60 kDa form; Cancer/testis antigen 23; CT23; Cancer/testis antigen OY-TES-1; Proacrosin-binding protein sp32; Acrosin-binding protein, 32 kDa form, mature form
Species	Human
Expression System	E. coli
Accession	Q8NEB7
Molecular Weight	Predictes a molecular mass of 26.52 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band.

Product Information

Sequence Region	324-543
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 324-543 aa (Q8NEB7) 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 Acrosin-binding protein fragment (residues 324-543) is a 220-amino acid segment derived from the 60 kDa form of ACRBP, also known as cancer/testis antigen 23. This fragment is engineered for stability and solubility, ideal for investigating its role in acrosome formation and proacrosin regulation in reproductive biology and cancer research. The full-length Acrosin-binding protein (ACRBP) is a secreted acrosomal protein primarily involved in maintaining proacrosin as an enzymatically inactive zymogen within the acrosome, a key structure in sperm cells. It localizes to cytoplasmic vesicles, secretory vesicles, and the acrosome, where it plays a critical role in acrosome development and function. By ensuring proacrosin remains inactive until needed, ACRBP contributes to proper fertilization processes. Its association with cancer/testis antigens, such as CT23 and OY-TES-1, highlights its relevance in both reproductive studies and oncological research, as these antigens are often expressed in cancer tissues.