Recombinant NBAS protein (His tag)

Catalog Number	539352
Synonyms	Neuroblastoma-amplified gene protein; Neuroblastoma-amplified sequence
Species	Human
Expression System	E. coli
Accession	A2RRP1
Molecular Weight	Predictes a molecular mass of 24.93 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	76-286
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 76-286 aa (A2RRP1) 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	This recombinant protein product features a stable and soluble fragment (residues 76-286) of the human NBAS subunit of the NRZ tethering complex. It is designed to support structural and biochemical studies of this key protein involved in Golgi-to-ER retrograde transport and SNARE assembly mechanisms. The full-length NBAS protein (neuroblastoma-amplified gene protein) plays a critical role in intracellular transport, specifically in Golgi-to-endoplasmic reticulum retrograde transport. As part of the NRZ complex, it contributes to SNARE assembly at the endoplasmic reticulum, facilitating vesicle fusion processes. NBAS is localized to both the cytoplasm and endoplasmic reticulum membrane, where it functions as a peripheral membrane protein. Additionally, it is required for normal embryonic development and may participate in nonsense-mediated decay pathways for mRNAs containing premature stop codons, highlighting its broader cellular significance beyond membrane trafficking.