Recombinant HS12A protein (His tag)

Catalog Number	549429
Synonyms	Heat shock protein family A member 12A
Species	Human
Expression System	E. coli
Accession	O43301
Molecular Weight	Predictes a molecular mass of 44.68 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 45 kDa band.

Product Information

Sequence Region	290-675
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 290-675 aa (O43301) 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 Heat shock 70 kDa protein 12A (HSPA12A) fragment (residues 290-675) from Homo sapiens, designed for structural and biochemical studies. This 386-amino acid fragment is a stable, soluble unit ideal for investigating the adapter function of HSPA12A in regulating SORL1 trafficking and localization. Heat shock 70 kDa protein 12A (HSPA12A) functions as an adapter protein specifically for SORL1, but not SORT1, playing a key role in delaying SORL1 internalization and influencing its subcellular localization. This protein is localized in both the cytoplasm and nucleus, underscoring its potential involvement in intracellular trafficking and regulatory pathways. The provided fragment enables focused analysis of these functional attributes in a stable, experimentally accessible format.