Recombinant PSMG3 protein (His tag)

Catalog Number	549080
Synonyms	PAC-3; hPAC3; Proteasome chaperone homolog 3; Pba3
Species	Human
Expression System	E. coli
Accession	Q9BT73
Molecular Weight	Predictes a molecular mass of 14.76 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	1-122
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 1-122 aa (Q9BT73) 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 Proteasome Assembly Chaperone 3 (PAC-3) Fragment (1-122 aa) is a high-quality protein product designed for structural and biochemical studies. This fragment represents a stable, soluble unit of PAC-3, optimized for research applications investigating proteasome assembly mechanisms. Proteasome Assembly Chaperone 3 (PAC-3), encoded by the PSMG3 gene in Homo sapiens, functions as a chaperone protein that promotes assembly of the 20S proteasome. It may cooperate with PSMG1-PSMG2 heterodimers to orchestrate correct proteasome assembly, playing a crucial role in maintaining protein homeostasis and cellular function. The specific fragment (amino acids 1-122) was selected based on computational predictions to ensure stability and solubility for experimental applications.