Recombinant FP100 protein (His tag)

Catalog Number	540212
Synonyms	Fanconi anemia-associated protein of 100 kDa
Species	Human
Expression System	E. coli
Accession	Q0VG06
Molecular Weight	Predictes a molecular mass of 20.93 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	704-881
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 704-881 aa (Q0VG06) 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 product is a recombinant fragment of the Fanconi anemia core complex-associated protein 100 (FAAP100), encompassing amino acids 704-881. This 178-amino acid fragment has been selected for its stability and solubility, making it an ideal tool for structural studies and biochemical assays related to DNA damage response mechanisms. The full-length Fanconi anemia core complex-associated protein 100 (FAAP100) is a key component of the Fanconi anemia-associated DNA damage response network. It plays a critical role in regulating FANCD2 monoubiquitination and maintaining the stability of the FA core complex. Dysfunction or repression of FAAP100 leads to chromosomal instability and increased sensitivity to DNA cross-linking agents, underscoring its importance in genomic integrity. FAAP100 is localized to the nucleus, where it participates in DNA repair processes, as supported by scientific evidence (ECO:0000269|PubMed:17396147).