Recombinant MCA3 protein (His tag)

Catalog Number	541774
Synonyms	Aminoacyl tRNA synthetase complex-interacting multifunctional protein 3; Elongation factor p18; Multisynthase complex auxiliary component p18
Species	Human
Expression System	E. coli
Accession	O43324
Molecular Weight	Predictes a molecular mass of 21.33 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	2-174
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 2-174 aa (O43324) 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 EEF1E1 Fragment (2-174): A high-purity protein fragment encompassing the GST C-terminal domain, designed for studying DNA damage response mechanisms and ATM signaling pathways in eukaryotic systems. Eukaryotic translation elongation factor 1 epsilon-1 (EEF1E1), also known as Aminoacyl tRNA synthetase complex-interacting multifunctional protein 3, functions as a positive modulator of the ATM response to DNA damage. This protein exhibits dynamic subcellular localization, residing primarily in the cytoplasm during growth arrest conditions but translocating to the nucleus during S phase and following DNA damage events. The full-length protein's ability to shuttle between cytoplasmic and nuclear compartments underscores its important regulatory role in cellular response to genotoxic stress.