Recombinant MTBP protein (His tag)

Catalog Number	549607
Synonyms	hMTBP
Species	Human
Expression System	E. coli
Accession	Q96DY7
Molecular Weight	Predictes a molecular mass of 16.58 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	295-428
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 295-428 aa (Q96DY7) 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	Introducing the recombinant Mdm2-binding protein (hMTBP) fragment (residues 295-428), a 134-amino acid segment designed for structural and biochemical studies. This soluble and stable fragment enables researchers to explore the protein's role in MDM2-mediated p53 regulation and tumor cell behavior without the complexities of the full-length protein. The full-length Mdm2-binding protein (MTBP) plays a critical role in cellular homeostasis by regulating MDM2-dependent p53/TP53 stability. It inhibits MDM2 autoubiquitination, thereby enhancing MDM2 stability and promoting p53 ubiquitination and degradation. This mechanism is essential in unstressed cells and contributes to the suppression of tumor cell migration and invasive behavior, highlighting MTBP's significance in cancer biology and cellular regulation pathways.