Recombinant MYCBP protein (His tag)

Catalog Number	545762
Synonyms	Associate of Myc 1; AMY-1
Species	Human
Expression System	E. coli
Accession	Q99417
Molecular Weight	Predictes a molecular mass of 13.49 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band.

Product Information

Sequence Region	2-103
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 2-103 aa (Q99417) 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 recombinant protein product features a stable and soluble fragment (amino acids 2-103) of the human c-Myc-binding protein (AMY-1), designed to support structural and biochemical studies of its interaction with the MYC transcription factor and its role in transcriptional regulation. The full-length c-Myc-binding protein (AMY-1), encoded by the MYCBP gene, functions as a key regulator of MYC transcriptional activity by stimulating E box-dependent transcription, which is critical for controlling gene expression involved in cell growth and proliferation. It localizes to the cytoplasm, nucleus, and mitochondria, with nuclear translocation occurring during the S phase of the cell cycle upon increased MYC expression, and mitochondrial association when bound to AKAP1, highlighting its dynamic role in cellular signaling and compartmentalization.