Recombinant MTCP1 protein (His tag)

Catalog Number	549197
Synonyms	p13MTCP1; Mature T-cell proliferation-1 type B1; MTCP-1 type B1
Species	Human
Expression System	E. coli
Accession	P56278
Molecular Weight	Predictes a molecular mass of 14.25 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	1-107
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 1-107 aa (P56278) 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 Protein p13 MTCP-1 (p13MTCP1) Fragment (1-107) is a high-quality, stable protein fragment designed for structural and biochemical studies. This soluble unit of the MTCP-1 type B1 protein, derived from Homo sapiens, retains functional relevance and is ideal for investigating its role in cellular signaling pathways. Protein p13 MTCP-1, encoded by the MTCP1 gene, is known to enhance the phosphorylation and activation of AKT1 and AKT2, as supported by scientific evidence (PubMed:10983986). This function underscores its importance in regulating key signaling pathways involved in cell growth and survival. The recombinant fragment (1-107) was computationally selected to ensure stability and solubility, facilitating research into its mechanistic contributions without the complexities of the full-length protein.