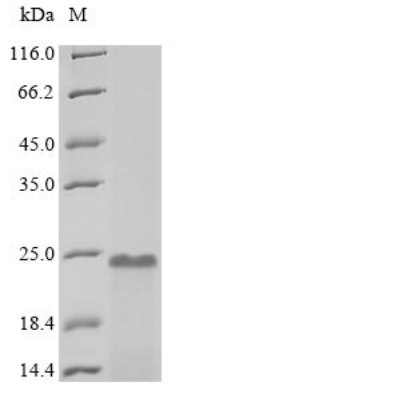
Recombinant Human Prothymosin alpha (PTMA)

Product Code	CSB-YP019000HUb0
Relevance	Prothymosin alpha may mediate immune function by conferring resistance to certain opportunistic infections.
Abbreviation	Recombinant Human PTMA protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P06454
Alias	TMSA
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MSDAAVDTSSEITTKDLKEKKEVVEEAENGRDAPANGNAENEENGEQEADNEVDEEEEEGGEEEEEEEEGDGEEEDGDEDEEAESATGKRAAEDDEDDDVDTKKQKTDEDD
Research Area	Cell Biology
Source	Yeast
Target Names	PTMA
Expression Region	1-111aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged
Mol. Weight	14.7kDa
Protein Length	Full?Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description	The recombinant Human PTMA was expressed with the amino acid range of 1-111. The calculated molecular weight for this PTMA protein is 14.7 kDa. This PTMA recombinant protein is manufactured in yeast. The PTMA gene fragment has been modified by fusing the N-terminal 10xHis tag, providing convenience in detecting and purifying the recombinant PTMA protein during the following stages. The human prothymosin alpha (PTMA) is a small, acidic protein that plays a role in both the immune system and cell proliferation. PTMA has immunomodulatory properties, influencing the maturation and function of immune cells. It is involved in T-cell development and activation, contributing to the regulation of the immune response. PTMA is associated with cell cycle regulation and cell proliferation. It interacts with proteins involved in DNA synthesis and repair, suggesting a role in maintaining genomic stability. Aberrant expression of PTMA has been observed in various cancers, implicating its involvement in tumorigenesis and progression. It can influence cell survival and proliferation pathways. Research on PTMA extends to understanding its molecular functions, regulatory mechanisms, and its potential as a therapeutic target, particularly in the context of cancer and immune-related disorders.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.