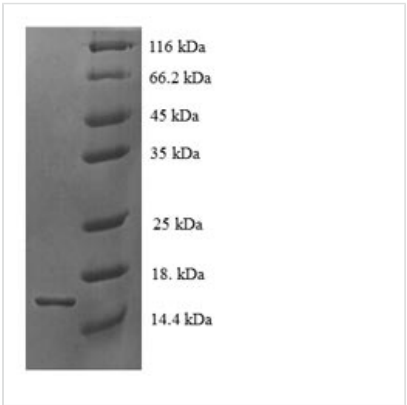
Recombinant Human Tetraspanin-7 (TSPAN7), partial

Product Code	CSB-EP025165HU
Relevance	May be involved in cell proliferation and cell motility.
Abbreviation	Recombinant Human TSPAN7 protein, partial
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.	P41732
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	RHEIKDTFLRTYTDAMQTYNGNDERSRAVDHVQRSLSCCGVQNYTNWSTSP YFLEHGIPPSCCMNETDCNPQDLHNLTVAATKVNQKGCYDLVTSFMETNM
Research Area	Immunology
Source	E.coli
Target Names	TSPAN7
Expression Region	113-213aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	15.6kDa
Protein Length	Partial

Image



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

Description

The recombinant Human TSPAN7 was expressed with the amino acid range of

113-213. The theoretical molecular weight of the TSPAN7 protein is 15.6 kDa. Expression of this TSPAN7 protein is conducted in e.coli. The N-terminal 6xHis tag was smoothly integrated into the coding gene of TSPAN7, which enables a simple process of detecting and purifying the TSPAN7 recombinant protein in the following steps.

Tetraspanin-7 (TSPAN7) is widely expressed in tissues throughout the body and is particularly prominent in the nervous system. It is a key component of tetraspanin-enriched microdomains (TEMs) or tetraspanin webs, where it interacts with other membrane proteins to regulate signal transduction, cell adhesion, and membrane organization. Research indicates that TSPAN7 plays essential roles in neuronal development and function. It has been implicated in neurite outgrowth, synaptogenesis, and the formation of neuronal circuits. TSPAN7's interactions with other proteins, including integrins and growth factor receptors, suggest its involvement in modulating cell adhesion and signaling pathways critical for neural development. Furthermore, mutations in the TSPAN7 gene have been associated with X-linked intellectual disability (XLID), highlighting its importance in cognitive function.

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.