

Recombinant Full Length Human sperm autoantigenic protein 17, His-tagged

Cat. No. SPA17-530H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SPA17, 1-151aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-151 a.a.
Description	SPA17 is a protein present at the cell surface. The N-terminus has sequence similarity to human cAMP-dependent protein kinase A (PKA) type II alpha regulatory subunit (RIIa) while the C-terminus has an IQ calmodulin-binding motif. The central portion of the protein has carbohydrate binding motifs and likely functions in cell-cell adhesion. The protein was initially characterized by its involvement in the binding of sperm to the zona pellucida of the oocyte. Recent studies indicate that it is also involved in additional cell-cell adhesion functions such as immune cell migration and metastasis. Recombinant human SPA17 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	19.8 kDa (174aa) confirmed by MALDI-TOF(Molecular size on SDS-PAGE will appear higher)

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AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSM SIPFSN THYRIPQGFG NLLEGLTREI LREQPDNIPA FAAAYFESLL EKREKTNFDP AEWGSKVEDR FYNNHAFEEQ EPPEKSDPKQ EESQISGKEE ETSVTILDSS EEDKEKEEVA AVKIQA AFRG HIAREEAKKM KTNSLQNEEK EENK
Purity	>90% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	SPA17 sperm autoantigenic protein 17 [Homo sapiens]
Official Symbol	SPA17
Synonyms	SPA17; sperm autoantigenic protein 17; sperm surface protein Sp17; cancer/testis antigen 22; CT22; SP17; sperm protein 17; SP17-1;
Gene ID	53340
mRNA Refseq	NM_017425
Protein Refseq	NP_059121
MIM	608621
UniProt ID	Q15506

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Chromosome Location	11q24.2
Function	cAMP-dependent protein kinase regulator activity;