

Recombinant Human SPESP1, His-tagged

Cat. No. SPESP1-194H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Sperm Equatorial Segment Protein 1/SPESP1 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Tyr20-Tyr350) of Human SPESP1 fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	20-350 a.a.
Description	Sperm Equatorial Segment Protein 1 (SPESP1) is a member of the SPESP1 family. SPESP1 is highly expressed in the testis, where it is localized to the acrosome of postmeiotic stages of spermiogenesis; it is expressed at lower levels in the placenta and fetal lung. SPESP1 is involved in the multicellular organisimal development. Disruption of SPESP1 leads to abnormal distribution of sperm proteins resulting in a detached membrane from the equatorial segment and less fertile sperm. SPESP1 may interact with IZUMO1 and MN9 antigen and it contains an N-glycosylation site as well as several cAMP-dependent kinase, protein kinase C, and casein kinase II consensus phosphorylation sites.
AA Sequence	YPSITVTPDEEQNLNHYIQVLENLVRSVPSGEPGREKKSNSPKHVYSIASKGSKFKEL VTHGDAS TENDVLNPISEETTTFTPTGGFTPEIGKKKHTTESTPFWSIKPNNVSIVLHA EOPYIENEPEPEP EPAAKQTEAPRMLPVVTESSTSPYVTSYKSPVTTLDKSTGIGIS

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TESEDVPQLSGETAIEKPEEF GKHPESWNNDDILKKILDINSQVQQALLSDTSNPAY
REDIEASKDHLKRSLALAAAAEHKLKTTY KSQLLPVGRSTNKIDDITVINMLCNSRS
KLYEYLDIKCVPPEMREKAATVFNTLKNMCRSRRVT ALLKVYVDHHHHHH

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by reducing SDS-PAGE.

GENE INFORMATION

Gene Name SPESP1 reserved [Homo sapiens]

Official Symbol SPESP1

Synonyms SPESP1; reserved; SP ESP;

Gene ID 83599

MIM 609399

UniProt ID Q6UW49

Chromosome Location 15q22.31

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