

Recombinant Human Sperm Equatorial Segment Protein 1/SPESP1 Protein(C-6His)

Cat.NO.: TP05674

3th Edition

Synonyms:Sperm Equatorial Segment Protein 1; ESP; Equatorial Segment Protein; SP-ESP; Glycosylated 38 kDa Sperm Protein C-7/8; SPESP1

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.

Form:PBS

Molecular Weight:37.9 kDa

Sequences:Tyr20-Tyr350

Purity:> 95% by HPLC

Concentration:

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.