

# Recombinant Human SPO11 Protein Product Manual

## 1. Product Basic Information

**Product No.:** REP08323

**Protein Name:** Cancer/Testis Antigen 35 (SPO11)

**Aliases:** CT35; TOPVIA; SPATA43; TOPOVIA; cancer/testis antigen 35; spermatogenesis associated 43; meiotic recombination protein SPO11; SPO11 initiator of meiotic double strand breaks; SPO11 initiator of meioti...

**UniProt ID:** Q9Y5K1

**UniProt Link:** <https://www.uniprot.org/uniprotkb/Q9Y5K1/entry>

**Species Source:** Homo sapiens (Human)

**Expression System:** Baculovirus

**Protein Length:** Full Length (1-396aa)

**Molecular Weight:** 47.3 kDa

**Protein Tag:** C-terminal 6xHis-tagged

## 2. Amino Acid Sequence (1-396aa)

MAFAPMGPEASFFDVLDRHRESLLAALRRGGREPPTGGSRLASSSEVLASIENIIQD  
IITSLARNEAPAFTIDNRSSWENIKFEDSVGLQMVSHCTTRKIKSDSPKSAQKFSLILK  
ILSMIYKLVQSNTYATKRDIYYTDSQLFGNQTVVDNIINDISCMLKVSRRSLHILSTSK  
GLIAGNLRVIEEDGTKVNCTCGATAVAVPSNIQGIRNLVTDKFLIVEKDQATFQRLL  
DDNFCNKLSPCIMITGKGVDPDLNTRLLVKKLWDTFHVPVFTLVDADPHGIEIMCIYKY  
GSMSMSFEAHHLTVPAIRWLGLLPSDLKRLNVPKDSLIPLTRDQMKLDSILRRPYV  
TCQPFWRKEMEIMADSKMKAEIQALTFLSSDYLSRVYLPNKLFKFGGWI

## 3. Storage Buffer

**Liquid Delivery Form:** Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

**Lyophilized Powder Delivery Form:** Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.



## 4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

## 5. Product Description

This product is a recombinant Human SPO11 full length protein (1-396aa) expressed in Baculovirus. The protein is with 6xHis tag at the C-terminus, which facilitates protein purification, detection and identification. SPO11, also known as CT35 or TOPVIA or SPATA43, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

## 6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.