

**Synonym**

HE4, WAP5, WFDC2, EDDM4

Source

Human HE4, His Tag(HE4-H5223) is expressed from human 293 cells (HEK293). It contains AA Glu 31 - Phe 124 (Accession # [AAH46106](#)). Predicted N-terminus: Glu 31

Molecular Characterization

**HE4(Glu 31 - Phe 124)
AAH46106**

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 10.9 kDa. The protein migrates as 19-23 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μ g by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μ m filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

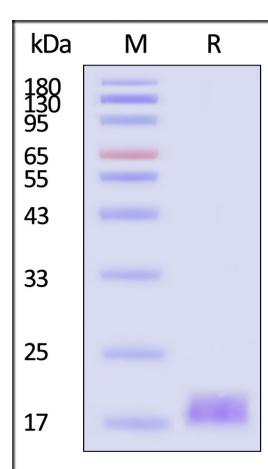
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

Human HE4, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

Background

Human Epididymis Protein 4 (HE4) is also known as WAP four-disulfide core domain protein 2 (WFDC2), Epididymal secretory protein E4, Major epididymis-specific protein E4, Putative protease inhibitor WAP5, is a member of the WFDC domain family. HE4 / WFDC2 is expressed in pulmonary epithelial cells, and was also found to be expressed in some ovarian cancers. The WFDC domain, or WAP Signature motif, contains eight cysteines forming four disulfide bonds at the core of the protein, and functions as a protease inhibitor in many family members. HE4 is also a small secretory protein, which may be involved in sperm maturation.

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Human HE4 / WFDC2 Protein, His Tag

Catalog # HE4-H5223



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