

## Product Details

### Summary

<b>Product name</b>	Recombinant Human HE4 protein,C- His Tag
<b>description</b>	A DNA sequence encoding the human WFDC2 (Met1~Phe124) was fused with the C-terminal His Tag
<b>Expression system</b>	Mammalian cells
<b>Species</b>	Homo sapiens (Human)
<b>Accession #</b>	Q14508
<b>Alternative names</b>	HE4, WAP5,Epididymal secretory protein E4, Major epididymis-specific protein E4, Putative protease inhibitor WAP5
<b>Actual Molecular Mass</b>	24kDa
<b>Purity</b>	>90% by SDS-PAGE
<b>Endotoxin level</b>	Please contact with the lab for this information.
<b>Formulation</b>	Supplied as solution form in PBS, pH7.5/ Supplied as lyophilized from PBS, pH7.5
<b>Shipping</b>	In general, proteins are shipped out with blue ice unless customers require otherwise.
<b>Stability &amp;Storage</b>	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 °C for one week . Store at -20 to -80 °C for twelve months from the date of receipt.
<b>Reconstitution</b>	Please refer to the instruction in the hard copy of COA.
<b>Application</b>	Calibrator or standard in ELISA, WB, IHC and other possible application

### Background

WAP four-disulfide core domain protein 2, also known as Epididymal secretory protein E4, Major epididymis-specific protein E4, Putative protease inhibitor WAP5, WFDC2 and HE4, is a secreted protein which contains twoWAP domains. WFDC2 / HE4 is a member of a family of stable 4-disulfide core proteins that are secreted at high levels. It is expressed in a number of normal tissues, including male reproductive system, regions of the respiratory tract and nasopharynx. It is highly expressed in a number of tumors cells lines, such ovarian, colon, breast, lung and renal cells lines. Initially described as being exclusively transcribed in the epididymis. WFDC2 may be a component of the innate immune defences of the lung, nasal and oral cavities and suggest that WFDC2 functions in concert with related WAP domain containing proteins in epithelial host defence. WFDC2 re-expression in lung carcinomas may prove to be associated with tumour type and should be studied in further detail. Mammary gland

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expression of tammar WFDC2 during the course of lactation showed WFDC2 was elevated during pregnancy, reduced in early lactation and absent in mid-late lactation. WFDC2 / HE4 can undergo a complex series of alternative splicing events that can potentially yield five distinct WAP domain containing protein isoforms.

### Note

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For research use only.

