

Recombinant Canine WFDC2 Protein (Met1-Phe124), HlgG1 Fc-tagged

Cat. No. WFDC2-916C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Canine WFDC2 Protein (Met1-Phe124) was produced by HEK293 Cells expression system. This protein was fused with the Fc region of human IgG1 at the C-terminus.
Species	Canine
Source	HEK293
ProteinLength	Met1-Phe124
Description	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 expression of tammar WFDC2 during the course of lactation showed

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	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.
Predicted N Terminal	Gly 28
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant canine WFDC2/Fc is a disulfide-linked homodimer. The reduced monomer comprises 338 amino acids and has a predicted molecular mass of 37.3 kDa. The apparent molecular mass of the protein is approximately 48 kDa in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are

shipped out with blue ice unless customers require otherwise.

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