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**Product Data Sheet**


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Product Name: EPCAM Human  
 Cat. No.: GP23404  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Epithelial cell adhesion molecule; Ep-CAM; Adenocarcinoma-associated antigen; Cell surface glycoprotein Trop-1; Epithelial cell surface antigen; Epithelial glycoprotein; EGP; Epithelial glycoprotein 314; EGP314; hEGP314; KS 1/4 antigen; KSA; Major gastrointestinal tumor-associated protein GA733-2; Tumor-associated calcium signal transducer 1; CD326; EPCAM; GA733-2; M1S2; M4S1; MIC18; TACSTD1; TROP1; ESA; MK-1; DIAR5; EGP-2; EGP40; KS1/4; HNPCC8.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSQMEECV CENYKLAVNC FVNNNRQCQC TSVGAQNTVI CSKLAAKCLV MKAEMNGSKL GRRAKPEGALQNNDGLYDPD CDESGLFKAK QCNGTSMCWC VNTAGVRRTD KDTEITCSER VRTYWIIIEL KHKAREKPYD SKSLRTALQK EITTRYQLDP KFITSILYEN NVITIDLQVN SSQKTQNDVD IADVAYYFEK DVKGESLFHS KKMDLTVNGE QLDLDPGQTL IYYVDEKAPE FSMQGLK.		
Formulation	EPCAM protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.		

**Introduction**

EPCAM is a carcinoma-associated antigen and belongs to a family which includes at least 2 type I membrane proteins. The EPCAM protein has a role in embryonic stem cells proliferation and differentiation. EPCAM is used as a target for immunotherapy treatment of human carcinomas. EPCAM is expressed on most normal epithelial cells and gastrointestinal carcinomas and acts as a homotypic calcium-independent cell adhesion molecule. Epithelial cell adhesion molecules (EPCAM) can act as a physical homophilic interaction molecule between intestinal epithelial cells (IECs) and intraepithelial lymphocytes (IELs) at the mucosal epithelium for supplying immunological barrier as a

**Caution: Product has not been fully validated for medical applications. For research use only.**

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first line of defense against mucosal infection. EPCAM gene mutations result in congenital tufting enteropathy.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

EPCAM Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 267 amino acids (24-265 a.a.) and having a molecular mass of 30.1kDa. EPCAM is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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