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## Product Data Sheet

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Product Name: MS4A1 Human  
 Cat. No.: GP23966  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	MS4A1; B1; Bp35; CD20; CVID5; LEU-16; MS4A2; S7; B-lymphocyte surface antigen B1; Leukocyte surface antigen Leu-16; Membrane-spanning 4-domains subfamily A member 1.		
Amino Acid Sequence	ADPGIVENEW KRTCSRPKSN IVLLSAEEKK EQTIEIKEEV VGLTETSSQP KNEEDIEIIP IQEEEEETE TNFPEPPQDQ ESSPIENDSS PHHHHHH.		
Formulation	MS4A1 protein solution (0.5 mg/ml) contains Phosphate buffered saline (pH7.4) and 10% glycerol.		

### Introduction

MS4A1 is an activated-glycosylated phosphoprotein expressed on the surface of all B-cells. The expression begins at the pro-B phase and until maturity the concentration increases in order to allow optimal B-cell immune response, specifically against T-independent antigens. MS4A1 takes part in the microenvironmental interactions of B cells and also in the regulation of B-cell activation and proliferation. MS4A1 also plays a role as a calcium channel in the cell membrane.

### 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

MS4A1 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 97 amino acids (210-297 a.a.) and having a molecular mass of 11.1 kDa (Molecular size on SDS-PAGE will appear at approximately 18-28 kDa). MS4A1 is fused with a 9 amino acids His tag at C-Terminus and purified by proprietary

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

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chromatographic techniques.

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