

CD20/MS4A1 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702381
Synonyms:	B-lymphocyte antigen CD20; B-lymphocyte surface antigen B1; Bp35; Leukocyte surface antigen Leu-16; Membrane-spanning 4-domains subfamily A member 1
Species:	Human
Source:	E. coli Cell-free
Accession:	P11836 (M1-P297)
Gene ID:	931
Molecular Weight:	34.6 kDa

PROPERTIES

AA Sequence	<pre> MTT PRNSVNG T F P A E P M K G P I A M Q S G P K P L F R R M S S L V G P T Q S F F M R E S K T L G A V Q I M N G L F H I A L G G L L M I P A G I Y A P I C V T V W Y P L W G G I M Y I I S G S L L A A T E K N S R K C L V K G K M I M N S L S L F A A I S G M I L S I M D I L N I K I S H F L K M E S L N F I R A H T P Y I N I Y N C E P A N P S E K N S P S T Q Y C Y S I Q S L F L G I L S V M L I F A F F Q E L V I A G I V E N E W K R T C S R P K S N I V L L S A E E K K E Q T I E I K E E V V G L T E T S S Q P K N E E D I E I I P I Q E E E E E E T E T N F P E P P Q D Q E S S P I E N D S S P </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The CD20/MS4A1 protein, a B-lymphocyte-specific membrane protein, plays a crucial role in regulating cellular calcium influx essential for the development, differentiation, and activation of B-lymphocytes. It functions as a component of the store-operated calcium (SOC) channel, promoting calcium influx upon activation by the B-cell receptor/BCR. CD20/MS4A1
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forms homotetramers, contributing to its structural organization and functional role in calcium signaling. Notably, it interacts with both the heavy and light chains of cell surface IgM, the antigen-binding components of the BCR, highlighting its involvement in the B-cell receptor complex and underscoring its significance in B-cell activation and immune responses.

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

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