

Active Recombinant Canine MS4A1 protein, His-tagged

Cat. No. MS4A1-3049C Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Canine MS4A1 protein(Met 1-Pro 297), fused with His tag, was expressed in HEK293.
Species	Canine
Source	HEK293
ProteinLength	Met 1-Pro 297
Form	Supplied as 0.2 µm filtered solution in 20 mM HEPES, 150 mM NaCl, pH7.5 with trehalose as protectant.
Bio-activity	Immobilized Canine CD20 Full Length Protein, His Tag at 5 µg/mL (100 µL/well) can bind Anti-Dog CD20 Antibody, Rabbit IgG with a linear range of 5-78.
Molecular Mass	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 35.2 kDa. The protein migrates as 25 kDa and 40 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. The membrane scaffold protein (MSP1D1) has calculated MW of 24.7 kDa, and it migrates as 25 kDa under reducing (R) condition (SDS-PAGE). Nanodiscs are a new class of model membranes that are being used to solubilize and study a range of integral membrane proteins and membrane-associated proteins. The Nanodisc bilayer is bounded by a membrane scaffold protein (MSP1D1) coat that confers enhanced stability and a narrow particle size distribution. The nanodisc assembles from a mixture of full length membrane protein in detergent, phospholipid micelles and membrane scaffold protein(MSP1D1)

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	upon removal of the detergent.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>80% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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