

Mouse FcRn/FCGRT & B2M Heterodimer Protein

Catalog # AMS.FCM-M52W2

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Description	
Source	Mouse FcRn, His Tag, Strep Tag (FCM-M52W2) is expressed from human 293 cells (HEK293). It contains AA Ser 22 - Ser 297 (FCGRT) & Ile 21 - Met 119 (B2M) (Accession # Q61559 (FCGRT) & P01887 (B2M)). Predicted N-terminus: Ser 22 (FCGRT) & Ile 2 (B2M)
Predicted N-terminus	Ser 22 (FCGRT) & Ile 21 (B2M)
Protein Structure	FCGRT(Ser 22 - Ser 297) Q61559 Poly-his
	B2M(lle 21 - Met 119) Twin-Strep P01887
Molecular Characterization	Mouse FcRn, His Tag, Strep Tag, produced by co-expression of FCGRT and B2M, has a calculated MW of 33.0 kDa (FCGRT) and 14.7 kDa (B2M). Subunit FCGRT is fused with his-tag at the C-terminus and subunit Beta-2 microglobulin (B2M) is fused with Twin- Strep tag at the C-terminus. The reducing (R) protein migrates as 42-48 kDa (FCGRT) and 15-17 kDa (B2M) respectively due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Formulation and Sto	orage
Formulation	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
	Contact us for customized product form or formulation.
Reconstitution	Please see Certificate of Analysis for specific instructions. For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.
Storage	For long term storage, the product should be stored at lyophilized state at -20°C or lower.Please avoid repeated freeze-thaw cycles.
	No activity loss was observed after storage at: • 4-8°C for 12 months in lyophilized state;
	 -70°C for 3 months under sterile conditions after reconstitution.
Background	
Background	FCGRT & B2M heterodimer protein (FcRn complex) consist of two subunits: p51 (equivalent to FCGRT), and p14 (equivalent to beta 2-microglobulin), and forms an MHC class I-like heterodimer. Fc fragment of IgG, receptor, transporter, alpha (FCGRT) binds to the Fc region of monomeric immunoglobulins gamma and mediates the uptake of IgG from milk. FCGRT possible role in transfer of immunoglobulin G from mother to fetus. Beta-2-microglobulin (B2M) is a component of the class I major histocompatibility complex (MHC) and involved in the presentation of peptide antigens to the immune system.
References	 (1) Goebl NA., et al., 2008, Mol. Biol. Cell 19 (12): 5490–505. (2) Lee TY., et al., 2008, Clin. Cancer Res. 14 (5): 1487–93. (3) Güssow D., et al., 1987, J. Immunol. 139 (9): 3132–8. (4) Gorevic P.D., et al., 1986, Proc. Natl. Acad. Sci. U.S.A. 83:7908-7912.

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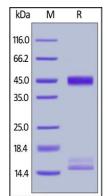


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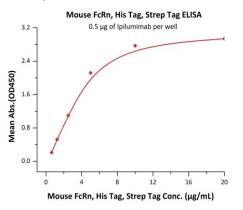
Assay Data

SDS-PAGE Data



Mouse FcRn, His Tag, Strep Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity Data



Immobilized Ipilumimab at 5 μ g/mL (100 μ L/well) can bind Mouse FcRn, His Tag, Strep Tag (Cat. No. FCM-M52W2) with a linear range of 0.625-5 μ g/mL (QC tested).

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