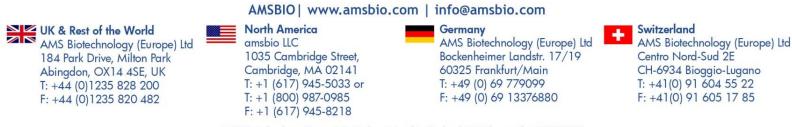
Biotinylated Cynomolgus / Rhesus macaque FcRn / FCGRT & B2M Heterodimer Protein

Catalog # AMS.FCM-C82W5-200UG

For Research Use Only

Description	
Source	MABSol® Biotinylated Cynomolgus / Rhesus macaque FcRn Heterodimer Protein (FCM-C82W5) is expressed from human HEK293 cells. It contains AA Ala 24 - Ser 297 (FCGRT) & Ile 21 - Met 119 (B2M) (Accession # Q8SPV9-1 (FCGRT) & Q8SPW0-1 (B2M)). Predicted N-terminus: Ala 24 (FCGRT) & Ile 21 (B2M)
Predicted N-terminus	Ala 24 (FCGRT) & Ile 21 (B2M)
Protein Structure	FcGRT (Ala 24 - Ser 297) Poly-his Avi Q8SPV9-1 Poly-his Avi
	B2M (Ile 21 - Met 119) Q8SPW0-1 Strep II
Molecular	The subunit FCGRT carries an Avi tag (Avitag™) at the C-terminus, followed by a polyhistidine tag. The subunit Beta-2 microglobulin
Characterization	(B2M) carries a Strep II tag at the C-terminus. The protein has a calculated MW of 34.1 kDa (FCGRT) and 13.0 kDa (B2M). The protein migrates as 40 kDa (FCGRT) and 14 kDa (B2M) respectively on a SDS-PAGE gel under reducing (R) condition due to glycosylation. Cynomolgus / Rhesus macaque FcRn Heterodimer Protein sequences are identical.
Biotinylation	Biotinylation of this product is performed using Avitag [™] technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Biotin:Protein Ratio	The biotin to protein ratio is 0.5-1 as determined by the HABA assay.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Formulation and Sto	rago
Formulation	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
Tormulation	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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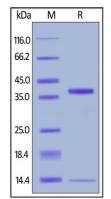
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Assay Data

SDS-PAGE Data



Biotinylated Cynomolgus / Rhesus macaque FcRn Heterodimer Protein on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

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