Proteins



Product Data Sheet

FCRN-B2M Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.: HY-P72368

Synonyms: IgG receptor FcRn; Neonatal Fc receptor; FCRN

Species: Human Source: HEK293

AAF72596 (A24-S297)&P61769 (I21-M119) Accession:

Gene ID: 2217&567 Molecular Weight: 35&13 kDa

PROPERTIES

AA Sequence	AESHLSLLYH LTAVSSPAPG TPAFWVSGWL GPQQYLSYNS LRGEAEPCGA WVWENQVSWY WEKETTDLRI KEKLFLEAFK ALGGKGPYTL QGLLGCELGP DNTSVPTAKF ALNGEEFMNF DLKQGTWGGD WPEALAISQR WQQQDKAANK ELTFLLFSCP HRLREHLERG RGNLEWKEPP SMRLKARPSS PGFSVLTCSA FSFYPPELQL RFLRNGLAAG TGQGDFGPNS DGSFHASSSL TVKSGDEHHY CCIVQHAGLA QPLRVELESP AKSS&IQRTP KIQVYSRHPA ENGKSNFLNC YVSGFHPSDI EVDLLKNGER IEKVEHSDLS FSKDWSFYLL YYTEFTPTEK DEYACRVNHV TLSQPKIVKW DRDM
Biological Activity	Loaded Biotinylated Human FcRn Heterodimer-His-Avi on HIS1K Biosensor, can bind Anti-Human HER2 mAb (Human IgG1) with an affinity constant of 0.11 μM as determined in BLI assay.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 6% Sucrose, 4% Mannitol, 0.05% Tween 80, pH 7.8
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH $_2$ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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

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Background

IgG receptor FcRn large subunit p51 is an IgG Fc receptor with a molecular structure similar to MHC Class I and also binds to β -2 microglobulin. In rodents, FcRn was originally thought to be a receptor that trantranks maternal immunoglobulin G (IgG) from mother to newborn offspring via breast milk and is therefore known as a neonatal Fc receptor. FcRn has also been shown to play a role in regulating IgG and serum albumin conversion, and neonatal Fc receptor expression is upregulated by pro-inflammatory cytokines TNF and down-regulated by IFN- γ . In the acidic endosomes of endothelial and hematopoietic cells, monomer IgG binds to FcRn, circulates IgG to the cell surface, where it is released into the circulation, regulating, in addition to IgG, homeostasis of the circulating protein albumin /ALB. The up-regulated expression of FCGRT in bladder cancer may serve as a key neutrophil gene associated with poor prognosis. FCGRT overexpression was also associated with decreased PD-L1 expression and decreased tumor mutation load (TMB) level [1][2] [3][4][5][6].

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

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