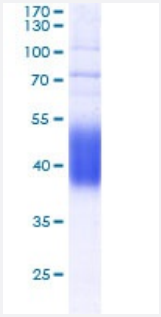
Bioactive HuPro®

IL21R (Human) Recombinant Protein

Catalog # P6779 Size 100 ug

Applications



IL21R (Human) Recombinant Protein (Cat # P6779) was determined by SDS-PAGE with Coomassie Blue, showing a band at 40-50 kDa.

Result of activity analysis

Result of activity analysis

Specification

Product Description	Human IL21R (NP_068570.1, 20 a.a. - 236 a.a.) partial recombinant protein with 6x His tag at C-terminal expressed in HEK293 cells.
Host	Human
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Ni-sepharose purification
Purity	> 90% by SDS-PAGE
Endotoxin Level	< 0.1 EU/ug of the protein by LAL method.

Activity	Measured by the binding ability in a functional ELISA. Immobilized IL21R (Human) Recombinant Protein (Cat # P6779) at 2 ug/mL (100 uL/well) can bind Recombinant Human IL-21 with a linear range of 0.128-5.63 ng/mL.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue IL21R (Human) Recombinant Protein (Cat # P6779) was determined by SDS-PAGE with Coomassie Blue, showing a band at 40-50 kDa.
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS, pH 7.4.
Storage Instruction	Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution to a concentration of 0.1-0.5 mg/mL in sterile distilled water, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- SDS-PAGE

Gene Info — IL21R

Entrez GeneID	50615
Protein Accession#	NP_068570.1
Gene Name	IL21R
Gene Alias	MGC10967, NILR
Gene Description	interleukin 21 receptor
Omim ID	147050 605383
Gene Ontology	Hyperlink

Gene Summary	The protein encoded by this gene is a cytokine receptor for interleukin 21 (IL21). It belongs to the type I cytokine receptors, and has been shown to form a heterodimeric receptor complex with the common gamma-chain, a receptor subunit also shared by the receptors for interleukin 2, 4, 7, 9, and 15. This receptor transduces the growth promoting signal of IL21, and is important for the proliferation and differentiation of T cells, B cells, and natural killer (NK) cells. The ligand binding of this receptor leads to the activation of multiple downstream signaling molecules, including JAK1, JAK3, STAT1, and STAT3. Knockout studies of a similar gene in mouse suggest a role for this gene in regulating immunoglobulin production. Three alternatively spliced transcript variants encoding the same protein have been described. [provided by RefSeq
Other Designations	-

Pathway

- Cytokine-cytokine receptor interaction
- Jak-STAT signaling pathway

Disease

- Cerebral Hemorrhage
- Diabetes Mellitus
- Drug Hypersensitivity
- Encephalomyelitis
- Genetic Predisposition to Disease
- Hypertension
- Intracranial Hemorrhages
- Lupus Erythematosus
- Multiple Sclerosis
- Osteoporosis
- Stroke
- Subarachnoid Hemorrhage