Recombinant Human IL11RA/IL11Rα Protein (His Tag)

Catalog No. PKSH031732

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description			
Synonyms	CRSDA;hCG_2011440;IL11RA;MGC2146		
Species	Human		
Expression Host	HEK293 Cells		
Sequence	Met 1-Val 363		
Accession	NP_004503.1		
Calculated Molecular Weight	38.6 kDa		
Observed molecular weight	47 kDa		
Tag	C-His		
Bioactivity	Measured by its ability to bind human IL6ST in a functional ELISA.		
Properties			
Purity	> 97 % as determined by reducing SDS-PAGE.		
Endotoxin	< 1.0 EU per μ g of the protein as determined by the LAL method.		
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.		
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.		
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.		
Reconstitution	Please refer to the printed manual for detailed information.		

Data

ł	٢Da	MK	R	
1	116	FISPSC	10	
de	6.2	-		
abso	45.0	-	- prob	29 S. L
	35.0	-		
labscie	25.0	-		labscie
	18.4	Jence		
Ĩ	14.4	-		

> 97 % as determined by reducing SDS-PAGE.

Background

Interleukin 11 receptor, alpha subunit (IL11RA/IL-11RA) is a subunit of the interleukin 11 receptor which is a member of the hematopoietic cytokine receptor family. IL11RA/IL-11RA is expressed in a number of cell lines, including the

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myelogenous leukemia cell line K562, the megakaryocytic leukemia cell line Mo7E, the erythroleukemia cell line TF1, and the osteosarcoma cell lines, MG-63 and Saos-2. It is also expressed in normal and malignant prostate epithelial cell lines. Expression levels are increased in prostate carcinoma. This particular receptor is very similar to ciliary neurotrophic factor, since both contain an extracellular region with a 2-domain structure composed of an immunoglobulin-like domain and a cytokine receptor-like domain. Alternative splicing has been observed at this locus, and three variants encoding two different isoforms have been identified. IL11RA/IL-11RA is a receptor for interleukin-11. The receptor systems for IL6, LIF, OSM, CNTF, IL11 and CT1 can utilize IL6ST for initiating signal transmission. Defects in IL11RA/IL-11RA are a cause of craniosynostosis and dental anomalies (CRSDA). CRSDA is a disorder characterized by craniosynostosis, maxillary hypoplasia, and dental anomalies, including malocclusion, delayed and ectopic tooth eruption, and/or supernumerary teeth. Some patients also display minor digit anomalies, such as syndactyly and/or clinodactyly.