

RPES8409

Product Information

Product SKU:	RPES8409	Expression Host:	Mammalian	Size:	20µg
Tag:	C-His	Reactivity:	Mouse	Accession:	P16872

Additional Information

Calculated MW:	23.9 kDa	Observed MW:	30-40 kDa
Sequence:	Glu21-Asp239		

Protein Information

Background: The IL-7 receptor (IL-7R) is comprised of two protein subunits, CD127/IL-7R α (IL-7R α) and the common gamma chain (CD132), which is the major signaling component for several cytokines including IL-2, IL-4, IL-9, IL-15, and IL-21. CD127/IL-7R α is a transmembrane protein belonging to the cytokine receptor homology class 1 (CRH1) and is expressed by a wide variety of cells including immature B cells, thymic natural killer cells, bone marrow stromal cells, and T cells. On its own, CD127/IL-7R α functions as a receptor for two cytokine receptor complex signaling cascades: IL-7 and thymic stromal lymphopoietin (TSLP). IL-7 signaling contributes to T cell development and homeostasis whereas TSLP receptor signaling contributes to dendritic cell activation and B cell development. IL-7 signaling is an essential component in regulating the homeostasis of naive and memory T cells as differential expression of CD127/IL-7R α is observed on naive and activated T cells, which occurs following TCR activation. Specifically, CD127/IL-7R α expression is downregulated on activated T cells and the subsequent re-expression of CD127/IL-7R α on these cells is indicative of cells that will differentiate into memory T cells.

Synonyms: -

Endotoxin: < 1.0 EU/mg of the protein as determined by the LAL method

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.

Purity: > 90% as determined by reducing SDS-PAGE.

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Bio-Activity:

Not validated for activity

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.