

RPES8215

Product Information

Product SKU:	RPES8215	Expression Host:	E.coli	Size:	20µg
Tag:	N-Trx	Reactivity:	Mouse	Accession:	P47873

Additional Information

Calculated MW:	39.4 kDa	Observed MW:	45 kDa
Sequence:	Pro22-Leu199		

Protein Information

Background: IL11 is a multifunctional cytokine first isolated in 199 from bone marrow-derived stromal cells. It is a key regulator of multiple events in hematopoiesis, most notably the stimulation of megakaryocyte maturation. IL11 is also known under the names adipogenesis inhibitory factor (AGIF) and oprelvekin. IL11 can improve platelet recovery after chemotherapy-induced thrombocytopenia, induce acute-phase proteins, modulate antigen-antibody responses, participate in the regulation of bone cell proliferation and differentiation, and could be used as a therapeutic for osteoporosis. IL11 stimulates the growth of certain lymphocytes and, in the murine model, stimulates an increase in the cortical thickness and strength of long bones. As a signaling molecule, IL11 has a variety of functions associated with its receptor interleukin 11 receptor alpha, such functions include placentation and to some extent of decidualization.

Synonyms: Interleukin, IL-11, Interleukin-11, Zcyto1, Zcyto10, Il11, AGIF, interleukin 11

Endotoxin: < 10 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.

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.