

Recombinant Human IL-1RN Protein

Catalog No	RP00003	Category	Protein
Description	Recombinant Human IL-1RN Protein is produced by <i>E. coli</i> expression system. The target protein is expressed with sequence (Arg26-Glu177) of human IL-1RN (Accession #NP_776214.1) fused with an initial Met at the N-terminus and a 6×His tag at the C-terminus.		
Bio-Activity	Measured by its ability to inhibit IL-1 alpha-dependent proliferation in D10.G4.1 mouse helper T cells. The ED ₅₀ for this effect is 5-40 ng/mL in the presence of 50 pg/mL of rhIL-1 alpha.		

Sequence Information

Species	Human	Gene ID	3557
Tags	6×His tag at the C-terminus	Swiss Prot	P18510
Synonyms	DIRA;ICIL-1RA;IL-1ra;IL-1ra3;IL-1RN;IL1F3;IL1RA;IRAP;MVCD4		
AA Sequence	RPSGRKSSKMQAFRIWDVNVQKTFYLRNNQLVAGYLQGPVNLEEKIDVVPIEPHALFLGI HGGKMCLSCVKSGDETRLQLEAVNITDLSNRKQDKRFAFIRSDSGPTTSFESAACPWF LCTAMEADQPVSLTNMPDEGVMVTKFYFQEDE		

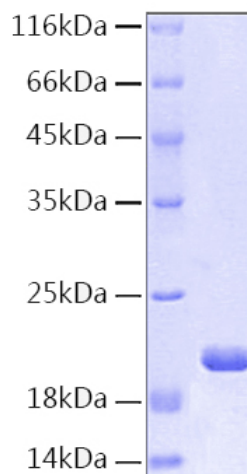
Product information

Source	<i>E. coli</i>
Purity	> 97% by SDS-PAGE.
Endotoxin	< 0.1 EU/μg of the protein by LAL method.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Reconstitution	Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Storage	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Background

Interleukin-1 receptor antagonist (IL-1RA) also known as IL1RN is a member of the interleukin 1 cytokine family. This protein inhibits the activities of interleukin 1, alpha (IL1A) and interleukin 1, beta (IL1B), and modulates a variety of interleukin 1 related immune and inflammatory responses. A polymorphism of this protein is reported to be associated with increased risk of osteoporotic fractures and gastric cancer.

SDS-PAGE



Recombinant Human IL-1RN was determined by SDS-PAGE under reducing conditions with Coomassie Blue, showing a band at 21 kDa.

Bioactivity