

Product datasheet

Recombinant mouse IL-1ra/IL-1F3 protein (Active) ab264457

[2 Images](#)

Description

Product name	Recombinant mouse IL-1ra/IL-1F3 protein (Active)	
Biological activity	Measured by its ability to inhibit proliferation using D10.G4.1 mouse helper T cells. The ED ₅₀ for this effect is less or equal to 60 ng/ml with Mouse IL-1 alpha.	
Purity	> 95 % SDS-PAGE. NULL	
Endotoxin level	< 1.000 Eu/μg	
Expression system	Escherichia coli	
Accession	P25085	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Mouse	
Sequence	MGSSHHHHHSSGLVPRGSHMGSHMRPSGKRPKMQA FRWDTNQKTFYL RNNQLIAGYLQGPNIKLEEKIDMVPIDLHSVFLGIHGGKLCCL SCAKSGDD IKLQLEEVNITDLSKNKEEDKRFTFIRSEKGPPTTSFESAAC PGWFLCTL EADRPVSLTNTPEEPLVTKFYFQEDQ	
Predicted molecular weight	20 kDa including tags	
Amino acids	27 to 178	
Tags	His tag N-Terminus	
Additional sequence information	NP_001034790	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab264457** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies
	Mass Spectrometry

	SDS-PAGE
Mass spectrometry	MALDI-TOF
Form	Liquid

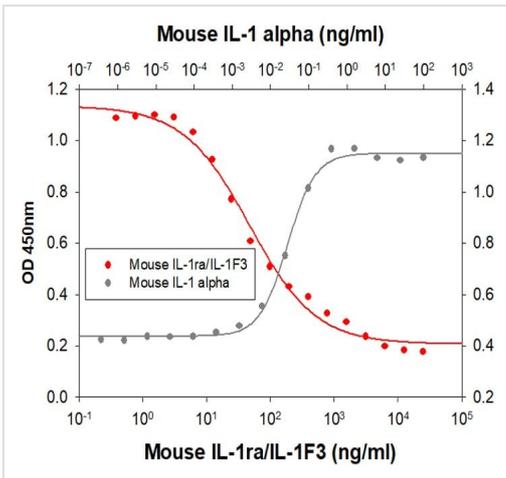
Preparation and Storage

Stability and Storage	<p>Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.</p> <p>pH: 8.00</p> <p>Constituents: 0.32% Tris HCl, 0.58% Sodium chloride, 10% Glycerol (glycerin, glycerine)</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
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General Info

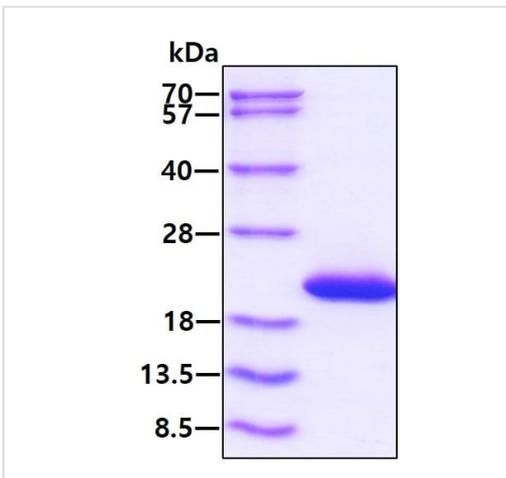
Relevance	<p>Function Inhibits the activity of interleukin-1 by binding to receptor IL1R1 and preventing its association with the coreceptor IL1RAP for signaling. Has no interleukin-1 like activity. Binds functional interleukin-1 receptor IL1R1 with greater affinity than decoy receptor IL1R2; however, the physiological relevance of the latter association is unsure. Tissue specificity The intracellular form of IL1RN is predominantly expressed in epithelial cells. Involvement in disease Genetic variation in IL1RN is associated with susceptibility to microvascular complications of diabetes type 4 (MVCD4) [MIM:612628]. These are pathological conditions that develop in numerous tissues and organs as a consequence of diabetes mellitus. They include diabetic retinopathy, diabetic nephropathy leading to end-stage renal disease, and diabetic neuropathy. Diabetic retinopathy remains the major cause of new-onset blindness among diabetic adults. It is characterized by vascular permeability and increased tissue ischemia and angiogenesis. Defects in IL1RN are the cause of interleukin 1 receptor antagonist deficiency (DIRA) [MIM:612852]; also known as deficiency of interleukin 1 receptor antagonist. Autoinflammatory diseases manifest inflammation without evidence of infection, high-titer autoantibodies, or autoreactive T-cells. DIRA is a rare, autosomal recessive, genetic autoinflammatory disease that results in sterile multifocal osteomyelitis (bone inflammation in multiple places), periostitis (inflammation of the membrane surrounding the bones), and pustulosis (due to skin inflammation) from birth. Pharmaceutical use Available under the name Kineret (Amgen). Used for the reduction in signs and symptoms and slowing the progression of structural damage in moderately to severely active rheumatoid arthritis.</p>
Cellular localization	Cytoplasmic (isoforms 2, 3 and 4)and Secreted (isoform 1)

Images



Measured by its ability to inhibit proliferation using D10.G4.1 mouse helper T cells. The ED₅₀ for this effect is less or equal to 60 ng/ml with Mouse IL-1 alpha.

Functional Studies - Recombinant mouse IL-1ra/IL-1F3 protein (Active) (ab264457)



SDS-PAGE - Recombinant mouse IL-1ra/IL-1F3 protein (Active) (3 µg ab264457).

Visualized using Coomassie blue.

SDS-PAGE - Recombinant mouse IL-1ra/IL-1F3 protein (Active) (ab264457)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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