

#### OriGene Technologies, Inc.

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# Product datasheet for TP723210

#### IL1 beta (IL1B) (NM\_000576) Human Recombinant Protein

### **Product data:**

Product Type:	Recombinant Proteins	
Description:	Purified recombinant protein of Human interleukin 1, beta (IL1B).	
Species:	Human	
Expression Host:	E. coli	
Expression cDNA Clone or AA Sequence:	APVRSLNCTL RDSQQKSLVM SGPYELKALH LQGQDMEQQV VFSMSFVQGE ESNDKIPVAL GLKEKNLYLS CVLKDDKPTL QLESVDPKNY PKKKMEKRFV FNKIEINNKL EFESAQFPNW YISTSQAENM PVFLGGTKGG QDITDFTMQF VSS	
Tag:	Tag Free	
Predicted MW:	17.3 kDa	
Concentration:	lot specific	
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining	
Buffer:	Lyophilized from a 0.2 $\mu$ M filtered solution of 20mM phosphate buffer,100mM NaCl, pH 7.2	
Bioactivity:	ED50 as determined by the dose-dependent stimulation of thymidine uptake by murine D10S cells is less than or equal to 1.0 pg/ml, corresponding to a specific activity of > 1 x 10^9 units/mg.	
Endotoxin:	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)	
Storage:	Store at -80°C.	
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.	
RefSeq:	<u>NP 000567</u>	
Locus ID:	3553	
UniProt ID:	<u>P01584</u>	
RefSeq Size:	1498	
Cytogenetics:	2q14.1	
RefSeq ORF:	807	
Synonyms:	IL-1; IL1-BETA; IL1beta; IL1F2	



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	IL1 beta (IL1B) (NM_000576) Human Recombinant Protein – TP723210	
Summary:	The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is produced by activated macrophages as a proprotein, which is proteolytically processed to its active form by caspase 1 (CASP1/ICE). This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. The induction of cyclooxygenase-2 (PTGS2/COX2) by this cytokine in the central nervous system (CNS) is found to contribute to inflammatory pain hypersensitivity. Similarly, IL-1B has been implicated in human osteoarthritis pathogenesis. Patients with severe Coronavirus Disease 2019 (COVID-19) present elevated levels of pro-inflammatory cytokines such as IL-1B in bronchial alveolar lavage fluid samples. The lung damage induced by the Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is to a large extent, a result of the inflammatory response promoted by cytokines such as IL-1B. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. [provided by RefSeq, Jul 2020]	
Protein Families:	Druggable Genome, Secreted Protein	
Protein Pathways	<ul> <li>Alzheimer's disease, Apoptosis, Cytokine-cytokine receptor interaction, Cytosolic DNA-sensing pathway, Graft-versus-host disease, Hematopoietic cell lineage, MAPK signaling pathway, NOD-like receptor signaling pathway, Prion diseases, Toll-like receptor signaling pathway, Type I diabetes mellitus</li> </ul>	

## Product images:

200-	
116—	
97	
55-	
37—	
22-	
14-	
6—	

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