

Recombinant Mouse IL-1 beta/IL1B Protein

Catalog No. PKSM041081

Description

Synonyms	Interleukin-1 Beta; IL-1 Beta; Il1b
Species	Mouse
Expression_host	E.coli
Sequence	Val118-Ser269
Accession	P10749
Mol_Mass	17.4 kDa
AP_Mol_Mass	16 kDa
Tag	No tag

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg as determined by the LAL method.
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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50mM TrisHCl, 50mM NaCl, pH 8.0.
Reconstitution	Please refer to the printed manual for detailed information.

Background

Interleukin-1 (IL-1) designates two proteins, IL-1 α and IL-1 β , which are the products of distinct genes, but recognize the same cell surface receptors. IL-1 α and IL-1 β are structurally related polypeptides that show approximately 25% homology at the amino acid level. Both proteins are produced by a wide variety of cells in response to stimuli such as those produced by inflammatory agents, infections, or microbial endotoxins. The proteins are synthesized as 31 kDa precursors that are subsequently cleaved into proteins with molecular weights of approximately 17.5 kDa. The specific protease responsible for the processing of IL-1 β , designated interleukin 1 β -converting enzyme (ICE), has been described. Mature human and mouse IL-1 β share approximately 75% amino acid sequence identity and human IL-1 β has been found to be active on murine cell lines.

SDS-PAGE

