Recombinant Human IL-6 Antigen

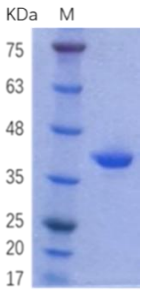
Product Datasheet

Catalog Number: RYZ001Ag2C-0001

Specification

Product name:	Recombinant human IL-6 antigen (Trx tag)
Source:	*E.coli* derived
Accession #:	P05231
SDS-PAGE:	35-48 kDa, reducing conditions
Construction:	Pro29-Met212, with an trx tag at the N-terminus.
Predicted Molecular Mass:	33kDa
Activity:	1. Measured in a cell proliferation assay using T1165.85.2.1 mouse plasmacytoma cells. The ED50 for this effect is 0.2-0.8 ng/mL. 2. Immunoreactivity was confirmed by reacting with monoclonal antibodies specific to human IL-6.
Application:	ELISA, immunology, others unspecified.
Form:	Liquid
Formulation:	10 mM Tris, 150 mM NaCl, pH 8.0
Stability & Storage:	Stable at -80°C for at least 24 months
Shipping condition:	The product is shipped on ice pack.Upon receiving, store it immediately at the recommended temperature.
Conc. Determined:	BCA
Purity:	＞98%

SDS-PAGE



Greater than 98% as determined by reducing SDS-PAGE. (QC verified).

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BACKGROUND

Cytokines of the IL6/GCSF/MGF family are glycoproteins composed of approximately 170-180 amino acid residues, and contain four conserved cysteine residues thatform two disulfide bonds. These proteins adopt a compact, globular fold similar to other interleukins, with the disulfide bonds providing structural stability. The core structure consists of a four-α-helix bundle with a left-handed twist; the helices are arranged in an anti-parallel fashion, connected by two overhand loops that form a two-stranded anti-parallel β-sheet. The fourth α-helix plays a critical role in the biological activity of the molecule. Interleukin-6 (IL-6) is a key proinflammatory and immunoregulatory cytokine produced by various cell types, including macrophages, T cells, and endothelial cells. It plays diverse roles in immune responses, inflammation, hematopoiesis, and oncogenesis.

References:

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4. Garbers, C. et al. (2012) Cytokine Growth Factor Rev. 23:85.
5. Mihara, M. et al. (2012) Clin. Sci. (Lond.) 122:143.
6. Hirano, T. et al. (1986) Nature 324:73.
7. Kestler, D.P. et al. (1995) Blood 86:4559.

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