

Recombinant Mouse IL6ST/CD130 Protein (CHO Cells, His^{dg} & Fc Tag)(Active)

DIA • AN[®]
by Elabscience

Catalog Number:PKSM040843

Note: Centrifuge before opening to ensure complete recovery of vial contents.

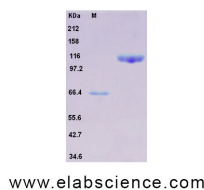
Description

Synonyms	5133400A03Rik;AA389424;BB405851;CD130;D13Ert699e;gp130
Species	Mouse
Expression Host	CHO Cells
Sequence	Met 1-Glu 617
Accession	NP_034690.3
Calculated Molecular Weight	94.7 kDa
Observed molecular weight	120-130 kDa
Tag	C-His-Fc
Bioactivity	Measured by its ability to inhibit the IL6 R α enhancement of IL6 activity on M1 mouse myeloid leukemia cells (Saito, T. et al. 1991, J. Immunol. 147:168.). The ED50 for this effect is typically 0.03-0.15 μ g/ml in the presence of 10 ng/ml recombinant human

Properties

Purity	> 95 % as determined by SDS-PAGE
Endotoxin	< 1.0 EU per μ g of the protein as determined by the LAL method.
Storage	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 sterile PBS, pH 7.4
Reconstitution	Please refer to the printed manual for detailed information.

Data



Background

Glycoprotein 130 (also known as gp130, IL6ST, IL6-beta or CD130) is a transmembrane protein which is the founding member of the class of all cytokine receptors. CD130/gp130 is a signal transducer shared by many cytokines, including interleukin 6 (IL6), ciliary neurotrophic factor (CNTF), leukemia inhibitory factor (LIF), and Oncostatin M (OSM). CD130/gp130 functions as a part of the cytokine receptor complex. The activation of this protein is dependent upon the binding of cytokines to their receptors. CD130/gp130 plays a critical role in regulating myocyte apoptosis. Alternatively spliced transcript variants encoding distinct isoforms have been described. A related pseudogene has been identified on chromosome 17. The receptor systems for IL6, LIF, OSM, CNTF, IL11, CTF1 and BSF3 can utilize gp130 for initiating

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signal transmission. CD130/gp130 binds to IL6/IL6R (alpha chain) complex, resulting in the formation of high-affinity IL6 binding sites, and transduces the signal. CD130/gp130 may have a role in embryonic development. The type I OSM receptor is capable of transducing OSM-specific signaling events.

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