Oncostatin M Receptor β/Fc Chimera
Mouse, Recombinant, Expressed in NSO cells

Product Code O 8762
Storage Temperature –20 °C

Synonym: OSM Rβ/Fc Chimera

Product Description
Recombinant mouse OSM Rβ/Fc chimera consists of amino acid residues 1 - 738 (extracellular domain) fused by a polypeptide linker to the C-terminal 6X histidine-tagged Fc portion of human IgG. The chimeric protein was expressed in mouse myeloma NSO cells. Recombinant OSM Rβ/Fc is a disulfide-linked homodimer. The calculated molecular mass of the monomer is 109 kDa, but as a result of glycosylation, the recombinant monomer migrates at >150 kDa on reducing SDS-PAGE.1,2

Oncostatin M is a member of the IL-6-type family of cytokines that includes IL-6, IL-11, CNTF (ciliary neurotrophic factor), LIF (leukemia inhibitory factor), and cardiotrophin-1. These cytokines signal through the common receptor subunit gp130.

Human OSM signals through two types of receptor complexes: type I made up of gp130 and LIF Rβ and type II made up of gp130 and OSM Rβ. Mouse OSM signals only through the type II complex. Mouse OSM Rβ retains a low affinity for OSM when not complexed to gp130, but forms a high-affinity binding complex in the presence of gp130. Mouse OSM Rβ demonstrates a 55% homology to human OSM Rβ.1,2,3

Supplied as approximately 100 µg of protein lyophilized from a 0.2 µm filtered phosphate-buffered saline (PBS) solution.

Preparation Instructions
Reconstitute the vial contents with sterile PBS containing at least 0.1% HSA or BSA. Suggested minimum stock solution: 100 µg/ml

Storage/Stability
Lyophilized samples are stable for more than six months at –20 °C to –70 °C. Upon reconstitution, store at 2-8 °C for up to one month. Store in working aliquots at –20 °C for up to three months. Repeated freeze-thaw cycles should be avoided. Do not store in a frost-free freezer.

Product Profile
Activity: immobilized recombinant mouse OSM Rβ/Fc chimera at 4 µg/ml (100 µl/well) binds recombinant mouse OSM with a linear range of 2 – 0.06 ng/ml in a functional ELISA assay. Optimal dilutions should be determined by each laboratory for each application.

Endotoxin level: < 0.1 ng/µg (LAL)

References

LCM/PHC 12/01

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