

Recombinant Rat Oncostatin-M (Rat OSM)

Product Information

| Product Name | Cat# | Size |
|--|-----------|--------|
| Recombinant Rat Oncostatin-M (Rat OSM) | 92109ES10 | 10 µg |
| | 92109ES60 | 100 µg |
| | 92109ES76 | 500 µg |

Product Description

Oncostatin-M (OSM) is a multifunctional cytokine that belongs to the Interleukin-6 subfamily. Among the family members, OSM is most closely related to leukemia inhibitory factor (LIF) and it in fact utilizes the LIF receptor in addition to its specific receptor in the human. It has approximately 48 % and 72 % amino acid sequence identity with human and mouse OSM. A biologically active OSM receptor has been previously described that consists of a heterodimer of leukemia inhibitory factor receptor (LIFR) and gp130. OSM is synthesized by stimulated T-cells and monocytes. Furthermore, the effects of OSM on endothelial cells suggest a pro-inflammatory role for OSM and endothelial cells possess a large number of OSM receptors.

Product Properties

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|----------------------------|---|
| Synonyms | MGC20461, oncostatin M, oncostatin-M, OSM |
| Accession | Q65Z15 |
| GeneID | 289747 |
| Source | E.coli-derived rat OSM protein, Lys26-Arg239. |
| Molecular Weight | Approximately 24.3 kDa. |
| AA Sequence | KRGCSSSSPK LLSQLKSQAN ITGNTASLLE PYILHQNLNT LTLRAACTEH PVAFPSEDML RQLSKPDFLS TVHATLGRVW HQLGAFRQQF PKIQDFPELE RARQNIQGIR NNVYCMARLL HPPLEIPEPT QADSGTSRPT TTAPGIFQIK IDSCRFLWGY HRFMGVGRV FEEWGDGSRR SRRHSPLWAW LKGDHRIRPS RSSQSAMLRs LVPR |
| Tag | None |
| Physical Appearance | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Purity | >96% by SDS-PAGE and HPLC analyses. |
| Biological Activity | The ED ₅₀ as determined by a cell proliferation assay using mouse NIH-3T3 cells is less than 2.0 ng/mL, corresponding to a specific activity of > 5.0 × 10 ⁵ IU/mg. Fully biologically active when compared to standard. |
| Endotoxin | < 1.0 EU per 1µg of the protein by the LAL method. |
| Formulation | Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, 0.1% Tween-80. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. |
| Reconstitution | Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions. |

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!