

Recombinant Murine Oncostatin-M

Information

Gene ID	18413		
Accession #	P53347		
Alternate Names			
Source	Escherichia coli.		
M.Wt	Approximately 20.4 kDa, a single non-glycosylated polypeptide chain containin 181 amino acids.		
AA Sequence	NRGCSNSSSQ LLSQLQNQAN LTGNTESLLE PYIRLQNLNT PDLRAACTQH SVAFPSEDTL RQLSKPHFLS TVYTTLDRVL YQLDALRQKF LKTPAFPKLD SARHNILGIR NNVFCMARLL NHSLEIPEPT QTDSGASRST TTPDVFNTKI GSCGFLWGYH RFMGSVGRVF REWDDGSTRS R		
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 12 months from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution - 3 months, -20 to -70 °C under sterile conditions after reconstitution		
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution in 2 \times PBS, pH 7.4, 5 % trehalose.		
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. 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.		
Biological Activity	Fully biologically active when compared to standard. The ED as determined by a cell proliferation assay using murine NIH-3T3 cells is less than 1.0 ng/ml, corresponding to a specific activity of > 1.0 \times 10 IU/mg.		
Shipping Condition	Gel pack.		
Handling	Centrifuge the vial prior to opening.		

Components and Storage

Components	10µg	100µg	500µg
Recombinant Murine Oncostatin-M	10µg	100µg	500µg

Use a manual defrost freezer and avoid repeated freeze-thaw cycles

- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 3 months, -20 to -70 °C under sterile conditions after reconstitution

Quality Control

	William Control of the Control of th	akno.
Purity	> 96 % by SDS-PAGE and HPLC analyses.	Carried the Barrier of the Carrier o
Endotoxin	Less than 1 EU/μg of rMuOSM as determined	by LAL method.

10

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. 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 proinflammatory role for OSM and endothelial cells possess a large number of OSM receptors. Recombinant murine OSM contains 181 amino acids and has a molecular mass of 20.4 kDa. It has approximately 48 % and 72 % amino acid sequence identity with human and rat OSM.

Reference

- 1. Tanaka M, Miyajima A. 2003. Rev Physiol Biochem Pharmacol. 149:39-52
- 2. Mosley B, De Imus C, Friend D, et al. 1996. J Biol Chem. 271:32635-43
- 3. Malik N, Kallestad JC, Gunderson NL, et al. 1989. Mol Cell Biol. 9:2847-53
- 4. Brown TJ, Rowe JM, Liu JW, et al. 1991. J Immunol. 147:2175-80.

APExBIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com