

Human M-CSF protein (active)

Cat. No. GTX136909-pro

Applications Functional Assay**Species** Human**Package**

100 µg

PRODUCT

Summary

M-CSF (also known as CSF1) is a cytokine that functions in the survival, proliferation, and differentiation of hematopoietic precursor cells. This bioactive recombinant human M-CSF is the 34 kDa form consisting of a disulfide-linked homodimer of two 159 a.a. subunits. Human M-CSF is active in murine systems, though the reverse is not the case.

Applications

Application Note

The ED₅₀ was determined by a cell proliferation assay using murine M-NSF-60 cells cells is ≤ 1 ng/ml, corresponding to a specific activity of $\geq 1 \times 10^6$ units/mg.

Observed MW (kDa) 17|28 kDa.

Properties

Form Lyophilized powder**Buffer** Reconstitute with distilled water to 0.1 mg/ml. Lyophilized from 50mM PBS, 100mM NaCl, 5% Trehalose.**Preservative** No preservatives**Storage** Store at 4°C or below. After reconstitution, keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles. For long-term storage after reconstitution, aliquot and store at -70°C or below. Do not vortex.**Region/Sequence** Human full-length M-CSF protein (33-181 a.a. of NP_000748.4, signal peptide removed)**Expression System** E. Coli**Purity** >98%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated

Note

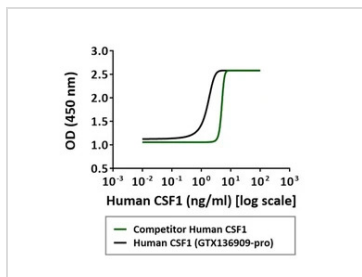
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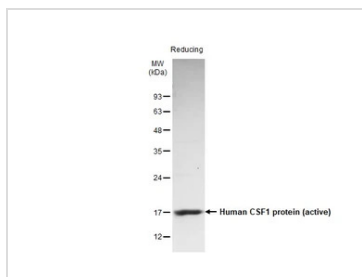
DATA IMAGES



GTX136909-pro Functional Assay Image

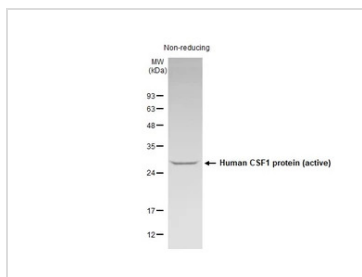
Serial dilutions of Human CSF1 protein (active) were added to murine M-NSF-60 cells. Cell proliferation was measured and the linear portion of the curve was used to calculate the ED50.

*This product has been tested against the competitor and the biological activity is better than competitor.



GTX136909-pro Image

1 µg of GTX136909-pro Human M-CSF protein (active) was analyzed using SDS-PAGE under reducing and stained with coomassie blue and captured by monochrome camera.



GTX136909-pro Image

1 µg of GTX136909-pro Human M-CSF protein (active) was analyzed using SDS-PAGE under non-reducing and stained with coomassie blue and captured by monochrome camera.



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