

## Human G-CSF protein (active)

## Cat. No. GTX138166-pro

|              |                         |         |
|--------------|-------------------------|---------|
| Applications | ELISA, Functional Assay | Package |
| Species      | Human                   | 100 µg  |

## PRODUCT

|         |  |
|---------|--|
| Summary | G-CSF (Granulocyte-colony stimulating factor/CSF3) is the major growth factor driving the generation of mature granulocytes from committed bone marrow myeloid progenitors. This biologically active recombinant human G-CSF is an 18.7 kDa globular protein formed by a 174-amino acid polypeptide with two intramolecular disulfide bonds. Human and murine G-CSFs are highly similar and show reciprocal biological cross-reactivity. |
|---------|--|

## Applications

## Application Note

Recommended antibody pairs for sandwich ELISA:

Capture: GTX641067 or Detection: GTX641068

|                   |         |
|-------------------|---------|
| Observed MW (kDa) | 15 kDa. |
|-------------------|---------|

## Properties

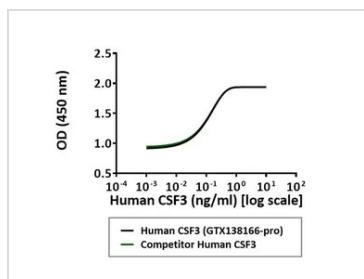
|                   |   |
|-------------------|---|
| Form              | Lyophilized powder  |
| Buffer            | Reconstitute with ddH <sub>2</sub> O to 0.1 mg/ml. Lyophilized from 50mM PBS (pH7.4), 200mM NaCl, 5% Trehalose.   |
| Preservative      | No preservatives  |
| Storage           | Store 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 G-CSF protein (31-204 a.a. of NP_757373.1, signal peptide removed)  |
| Expression System | E. Coli   |
| Purity            | >98%  |
| Endotoxin         | < 1 EU/ug   |
| Conjugation       | Unconjugated  |
| Note              | For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.   |
|                   | Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.   |



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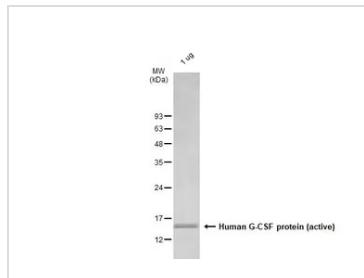
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## DATA IMAGES



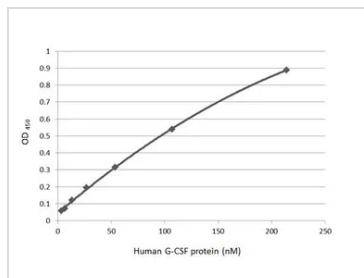
## GTX138166-pro Functional Assay Image

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



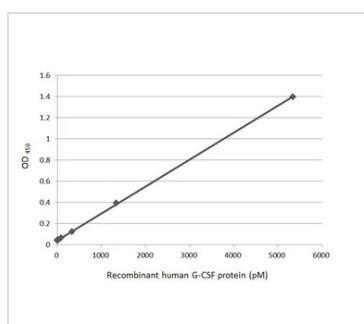
## GTX138166-pro Image

1 µg of GTX138166-pro Human G-CSF protein (active) was analyzed using SDS-PAGE and stained with coomassie blue and captured by monochrome camera.



## GTX138166-pro ELISA Image

Indirect ELISA analysis was performed by coating the plate with recombinant Human G-CSF protein (active) (GTX138166-pro) (213.9-3.34 nM). Coated protein was probed with G-CSF antibody [GT21] (GTX641067) (1 µg/mL). Goat anti-mouse IgG antibody (HRP) (GTX213111-01) (1:10000) was used to detect the bound primary antibody.



## GTX138166-pro ELISA Image

Sandwich ELISA detection of recombinant Human G-CSF protein (active) (GTX138166-pro) using antibodies as below.

**Capture:** G-CSF antibody [GT21] (GTX641067) (5 µg/mL)

**Detection:** HRP-conjugated G-CSF antibody [GT22] (GTX641068) (1 µg/mL)

Please notice that GTX641068 needs to be conjugated to HRP to function as the detection antibody when paired with GT21. Please contact us for custom HRP-conjugated antibody.



For full product information, images and publications, please visit our [website](#).

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