

## Recombinant Rat GM-CSF Protein

| Catalog #                 | Source   | Reactivity | Applications        |
|---------------------------|--|------------|---------------------|
| CRP3086                   | Human cells  | Rat        | E, WB, SDS-PAGE, MS |
| <b>Description</b>        | Recombinant Rat GM-CSF Protein is produced by mammalian expression system and the target gene encoding Ala18-Lys144 is expressed with a 6His tag at the C-terminus.  |            |                     |
| <b>Form</b>               | Lyophilized from a 0.2 µm filtered solution of PBS pH7.4.  |            |                     |
| <b>Gene Symbol</b>        | CSF2   |            |                     |
| <b>Alternative Names</b>  | GMCSF; Granulocyte-macrophage colony-stimulating factor; GM-CSF; Colony-stimulating factor; CSF; Molgramostin; Sargramostim  |            |                     |
| <b>Entrez Gene</b>        | 116630 (Rat)   |            |                     |
| <b>SwissProt</b>          | P48750 (Rat)   |            |                     |
| <b>Purity</b>             | Greater than 95% as determined by reducing SDS-PAGE.   |            |                     |
| <b>Chemical Structure</b> | APTRSPNPVT RPWKHVDAIK EALSLLNDMR ALENEKNEDV DIISNEFSIQ RPTCVQTRLK<br>LYKQGLRGNL TKLNGALTM I ASHYQTN CPP TPETDCEIEV TTFEDFIK NL KGFLFDIPFD<br>CWKPVQKVDH HHHHH  |            |                     |
| <b>Quality Control</b>    | Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.   |            |                     |
| <b>Directions for Use</b> | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH <sub>2</sub> O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |            |                     |
| <b>Storage/Stability</b>  | Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  |            |                     |

**Application key:** E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

**Species reactivity key:** H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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