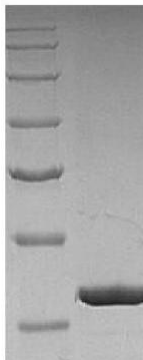
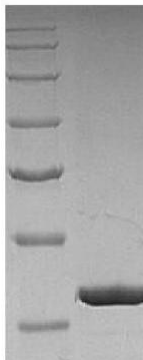
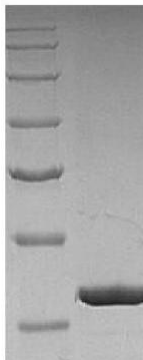


## Recombinant Human G-CSF

Catalog#:AC13077    Derived from *E.coli*

| <b>DESCRIPTION</b>     | <p>Recombinant Human Granulocyte Colony-Stimulating Factor is produced by our E.coli expression system and the target gene encoding Thr31-Pro204 is expressed.</p> <p>Accession#:P09919-2</p> <p>Known as: Granulocyte Colony-Stimulating Factor, G-CSF, Pluripoietin, Filgrastim, Lenograstim, CSF3, C17orf33, GCSF</p>  |     |    |   |     |   |  |    |    |    |    |    |    |
|------------------------|---|-----|----|---|-----|---|--|----|----|----|----|----|----|
| <b>FORMULATION</b>     | Lyophilized from a 0.2 μm filtered solution of 10mM HAc-NaAc, 150mM NaCl, 0.004% Tween 80, 5% Mannitol, pH 4.0.   |     |    |   |     |   |  |    |    |    |    |    |    |
| <b>SHIPPING</b>        | <p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>  |     |    |   |     |   |  |    |    |    |    |    |    |
| <b>STORAGE</b>         | <p>Lyophilized protein should be stored at &lt; -20 °C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7 °C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at &lt; -20 °C for 3 months.</p>   |     |    |   |     |   |  |    |    |    |    |    |    |
| <b>RECONSTITUTION</b>  | <p>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</p> <p>It is not recommended to reconstitute to a concentration less than 100μg/ml.</p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>  |     |    |   |     |   |  |    |    |    |    |    |    |
| <b>QUALITY CONTROL</b> | <p>Mol Mass: 18.8 kDa    AP Mol Mass: 16 kDa, reducing conditions.</p> <p>Purity: Greater than 95% as determined by reducing SDS-PAGE.</p> <p>Endotoxin: Less than 0.1 ng/μg (1 IEU/μg).</p>  |     |    |   |     |   |  |    |    |    |    |    |    |
| <b>Background</b>      | <p>Human Granulocyte-Colony-Stimulating Factor (G-CSF) is 20 kD glycoprotein containing internal disulfide bonds. It induces the survival, proliferation, and differentiation of neutrophilic granulocyte precursor cells and it functionally activates mature blood neutrophils. Among the family of colony-stimulating factors, G-CSF is the most potent inducer of terminal differentiation to granulocytes and macrophages of leukemic myeloid cell lines.</p>  |     |    |   |     |   |  |    |    |    |    |    |    |
| <b>SDS-PAGE</b>        | <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: left;">kDa</th> <th style="text-align: center;">MK</th> <th style="text-align: center;">R</th> </tr> </thead> <tbody> <tr> <td>120</td> <td colspan="2" rowspan="8">  </td> </tr> <tr><td>90</td></tr> <tr><td>60</td></tr> <tr><td>40</td></tr> <tr><td>30</td></tr> <tr><td>20</td></tr> <tr><td>14</td></tr> </tbody> </table> | kDa | MK | R | 120 |  |  | 90 | 60 | 40 | 30 | 20 | 14 |
| kDa                    | MK  | R   |    |   |     |   |  |    |    |    |    |    |    |
| 120                    |    |     |    |   |     |   |  |    |    |    |    |    |    |
| 90                     |   |     |    |   |     |   |  |    |    |    |    |    |    |
| 60                     |   |     |    |   |     |   |  |    |    |    |    |    |    |
| 40                     |   |     |    |   |     |   |  |    |    |    |    |    |    |
| 30                     |   |     |    |   |     |   |  |    |    |    |    |    |    |
| 20                     |   |     |    |   |     |   |  |    |    |    |    |    |    |
| 14                     |   |     |    |   |     |   |  |    |    |    |    |    |    |