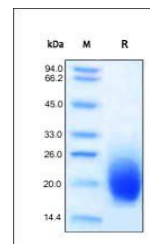


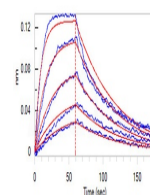
## Product Datasheet

### Human GM-CSF Protein (orb257510)

|                          |                                                                                                                                                                                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>       | Human GM-CSF, premium grade is expressed from human 293 cells (HEK293). It contains AA Ala 18 - Glu ...                                                                                                                                       |
| <b>Reactivity</b>        | Human                                                                                                                                                                                                                                         |
| <b>Endotoxins</b>        | 0.1 EU per µg                                                                                                                                                                                                                                 |
| <b>Conjugation</b>       | Unconjugated                                                                                                                                                                                                                                  |
| <b>Target</b>            | GM-CSF                                                                                                                                                                                                                                        |
| <b>Preservatives</b>     | PBS, pH7.4                                                                                                                                                                                                                                    |
| <b>Form/Appearance</b>   | Powder                                                                                                                                                                                                                                        |
| <b>Storage</b>           | -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20°C or lower.                              |
| <b>Tag</b>               | Native                                                                                                                                                                                                                                        |
| <b>Note</b>              | For research use only                                                                                                                                                                                                                         |
| <b>Application notes</b> | This protein carries no "tag". The protein has a calculated MW of 14.5 kDa. The protein migrates as 25 kDa±3 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| <b>Purity</b>            | 95%                                                                                                                                                                                                                                           |
| <b>Source</b>            | Human GM-CSF, premium grade (orb257510) is expressed from human 293 cells (HEK293). It contains AA Ala 18 - Glu 144 (Accession # NP_000749.2).                                                                                                |
| <b>MW</b>                | 14.5 kDa                                                                                                                                                                                                                                      |
| <b>Uniprot ID</b>        | <b>P04141</b>                                                                                                                                                                                                                                 |
| <b>NCBI</b>              | <b>NP_000749.2</b>                                                                                                                                                                                                                            |
| <b>Expiration Date</b>   | 6 months from date of receipt.                                                                                                                                                                                                                |



SDS-PAGE analysis of Human GM-CSF protei...



Loaded Human GM-CSF R alpha, Fc Tag (Cat...