

## 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 144 (Accession # NP_000749.2).
<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>Biologically Active?</b>	Yes
<b>Biological Activity</b>	Loaded Human GM-CSF R alpha, Fc Tag on Protein A Biosensor, can bind Human GM-CSF, premium grade with an affinity constant of 9.21 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).
<b>Purity</b>	95%

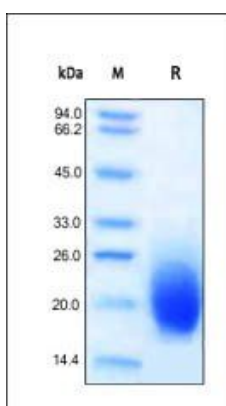
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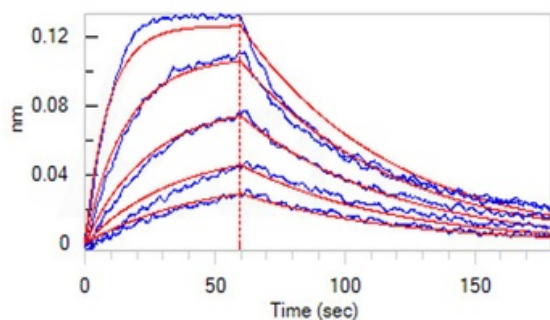
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<b>Source</b>	Human GM-CSF, premium grade (orb257510) is expressed from human 293 cells (HEK293). It contains AA Ala 18 - Glu 144 (Accession # NP_000749.2).
<b>MW</b>	14.5 kDa
<b>Uniprot ID</b>	<b>P04141</b>
<b>NCBI</b>	<b>NP_000749.2</b>
<b>Expiration Date</b>	6 months from date of receipt.



SDS-PAGE analysis of Human GM-CSF protein



Loaded Human GM-CSF R alpha, Fc Tag (Cat. No. orb545735) on Protein A Biosensor, can bind Human GM-CSF, premium grade (Cat. No. orb257510) with an affinity constant of 9.21 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

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