

# Product Datasheet

## Recombinant Human GM-CSF Protein **NBP2-26565-5ug**

Unit Size: 5 ug

Store at -20C. Avoid freeze-thaw cycles.

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**NBP2-26565-5ug**

Recombinant Human GM-CSF Protein

**Product Information**

<b>Unit Size</b>	5 ug
<b>Concentration</b>	Lyoph
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Preservative</b>	No Preservative
<b>Reconstitution Instructions</b>	Reconstitute with sterilized 18 M omega-cm water to a final concentration of at least 0.1 mg/ml.
<b>Purity</b>	> 98 % pure by SDS-PAGE and HPLC
<b>Buffer</b>	Lyophilized after extensive dialysis against 2mM sodium phosphate buffer pH= 7.4 (plus or minus 0.1).
<b>Target Molecular Weight</b>	14.4 kDa

**Product Description**

<b>Description</b>	Recombinant biologically active GM-CSF protein.  <b>Source:</b> <i>E. coli</i>
<b>Gene ID</b>	1437
<b>Gene Symbol</b>	CSF2
<b>Species</b>	Human
<b>Preparation Method</b>	Protein quantitation was carried out by two independent methods: 1.UV spectroscopy at 280 nm using the absorbency value of 0.963 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENEcomputer analysis program of protein sequences (IntelliGenetics).2. Analysis by RP-HPLC, using a standard solution of GM-CSF as a Reference Standard.
<b>Details of Functionality</b>	GM-CSF is fully biologically active when compared to standard. The ED50 as determined by the dose-dependant stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line) is less than 0.1 ng/ml, corresponding to a Specific Activity of 11.1x10 <sup>6</sup> IU/mg.
<b>Notes</b>	After reconstitution, store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Endotoxin Note</b>	Less than 0.1 ng/ug (IEU/ug) of GM-CSF .

**Product Application Details**

<b>Applications</b>	Bioactivity
<b>Recommended Dilutions</b>	Bioactivity



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## Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Peptides and proteins are guaranteed for 3 months from date of receipt.

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