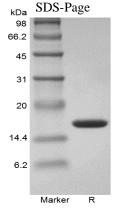
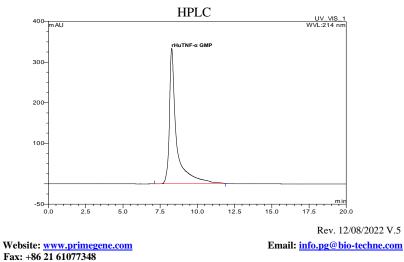
## **PrimeGene** a biotechne brand

## Recombinant Human Tumor Necrosis Factor-alpha/TNFSF2 GMP (rHuTNF-α/TNFSF2 GMP) PrimeGene Technical Data Sheet

Catalog Number:	GMP-103-01
Source:	Escherichia coli.
Molecular Weight:	Approximately 17.5 kDa, a single non-glycosylated polypeptide chain containing 158 amino acids.
Quantity:	5µg/100µg/1mg
AA Sequence:	MVRSSSRTPS DKPVAHVVAN PQAEGQLQWL NRRANALLAN GVELRDNQLV VPSEGLYLIY SQVLFKGQGC PSTHVLLTHT ISRIAVSYQT KVNLLSAIKS PCQRETPEGA EAKPWYEPIY LGGVFQLEKG DRLSAEINRP DYLDFAESGQ VYFGIIAL
Purity:	> 98 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by a cytotoxicity assay using murine L929 cells is less than 0.05 ng/ml, corresponding to a specific activity of $> 2.0 \times 10^7$ IU/mg in the presence of actinomycin D, which is calibrated against rHuTNF- $\alpha$ /TNFSF2 reference standard (NIBSC code: 12/154).
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 10 mM PB, 10 mM NaCl, pH 7.0.
Endotoxin:	Less than 0.01 EU/ $\mu$ g of rHuTNF- $\alpha$ /TNFSF2 GMP as determined by LAL method.
Sterility:	Negative.
Mycoplasma:	Negative when tested by RD-RCA.
Host Cell Protein:	Less than 0.05% when tested by ELISA.
Host Cell DNA:	Less than 20ng/mg when tested by qPCR.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $\leq$ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	<ul> <li>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</li> <li>A minimum of 12 months when stored at ≤ -20 °C as supplied. Refer to lot specific COA for the Use by Date.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>3 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>
Usage:	This GMP product can be for research use or further manufacturing use.
Quality statement:	The manufacture and testing of this product is in compliance with ICH Q7a guidelines.





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