

## Recombinant Human Tumor Necrosis Factor-alpha/TNFSF2 GMP (rHuTNF-α/TNFSF2 GMP)

**ChemWhat Technical Data Sheet (TDS)** 

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.

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/μg of rHuTNF-α/TNFSF2 GMP as determined by LAL method.

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: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

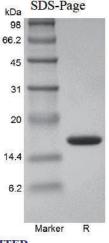
 A minimum of 12 months when stored at ≤ -20 °C as supplied. Refer to lot specific COA for the Use by Date.

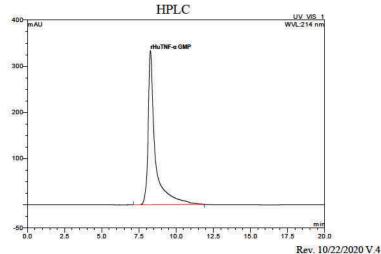
1 month, 2 to 8 °C under sterile conditions after reconstitution.

• 3 months, -20 to -70 °C under sterile conditions after reconstitution.

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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