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# Certificate of Analysis and Data Sheet Recombinant Bovine GM-CSF

**Catalog No.**  
DS-01-0135

**Species**  
Bovine

## Product Form

Tissue Culture Supernatant from HEK293T cells expressing recombinant bovine GM-CSF - lyophilized

## Formulation

**Reconstitution:** Reconstitute with 1.0ml distilled water

Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial.

**Preservative Stabilizer:** 1% Bovine Serum Albumin.

## Specificity

DS-01-0135 is a tissue culture supernatant containing active bovine GM-CSF, a cytokine that stimulates the growth and differentiation of hematopoietic precursor cells from various lineages, including granulocytes, macrophages, eosinophils and erythrocytes.

This preparation has been shown to have biological activity in proliferation assays utilizing TF-1 cells. The specific concentration of GM-CSF has not been assayed.

## Storage

Prior to reconstitution store at +4°C.

After reconstitution store at +4°C or at -20°C if preferred.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life:** 12 months from date of reconstitution.

## Applications

Table. Summary of antigen applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Functional Assays	■			1:2 – 1:10

Note: Other applications are not tested yet. Optimal dilutions should be determined.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**