

Product datasheet

Recombinant rat G-CSF protein ab176083

Description

Product name	Recombinant rat G-CSF protein	
Biological activity	Determined by its ability to stimulate the proliferation of mouse NFS-60 cells. The expected ED ₅₀ is ≤ 0.05 ng/ml, corresponding to a specific activity of ≥ 2 x 10 ⁷ units/mg.	
Purity	≥ 98 % SDS-PAGE.	
Endotoxin level	< 0.100 Eu/μg	
Expression system	Escherichia coli	
Accession	NP_058800.1	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Rat	
Sequence	MKKIPLLTVSSLPPSLPLPRSFLLKSLEQVRKIQARNTELLE QLCATYKL CHPEELVLFHGSLGIPKASLSSCSSQALQQTKCLSQLHSG LFLYQGLLQA LAGISSELAPTLDMLHLDVDNFATTWQQMESLGVAPTQ PTQSTMPIFT SAFQRRAGGVLVTSYLQSFLETAHHALHHLPRPAQKHFP ESLFISI	
Predicted molecular weight	22 kDa	
Amino acids	22 to 214	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab176083** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies
	HPLC
	SDS-PAGE
Form	Lyophilized

Preparation and Storage

Stability and Storage

Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Upon reconstitution add a carrier protein (0.1% BSA). Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Constituent: 0.26% Sodium citrate

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

General Info

Function

Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. This CSF induces granulocytes.

Sequence similarities

Belongs to the IL-6 superfamily.

Post-translational modifications

O-glycan consists of Gal-GalNAc disaccharide which can be modified with up to two sialic acid residues (done in recombinantly expressed G-CSF from CHO cells).

Cellular localization

Secreted.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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