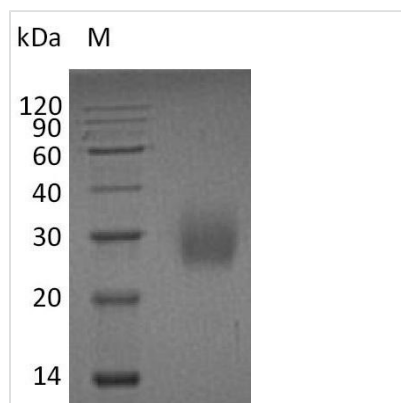




Recombinant Human Granulocyte-macrophage colony-stimulating factor (CSF2) (Active)

Product Code	CSB-AP003611HU
Uniprot No.	P04141
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 μ m Filtered 10 mM Tris-HCl, 4% Mannitol, 1% Sucrose, pH 8.5
Product Type	Colony Stimulating Factor
Immunogen Species	Homo sapiens (Human)
Biological Activity	The ED50 as determined in a cell proliferation assay using TF?1 human erythroleukemic cells is less than 0.6 ng/mL.
Purity	$\geq 90\%$ as determined by SDS-PAGE.
Sequence	APARSPSPSTQPWEHVNAIQEARRLLNLSRDAAEMNETVEVISEMFDLQEPT CLQTRLELYKQGLRGLSLTKLKGPLTMMASHYKQHCPPTPETSCATQIITFESFK ENLKDFLLVIPFDCWEPVQE
Research Area	Immunology
Source	Yeast
Target Names	CSF2
Expression Region	18-144aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag-Free
Mol. Weight	14.4 kDa
Protein Length	Full Length of Mature Protein

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Endotoxin



Less than 1.0 EU/μg as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.