



Recombinant Mouse Cardiotrophin-1 protein (Ctf1) (Active)

Product Code	CSB-AP000531MO
Abbreviation	Recombinant Mouse Ctf1 protein (Active)
Uniprot No.	Q60753
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered 20 mM PB, pH 7.4, 150mM NaCl
Product Type	Other
Immunogen Species	Mus musculus (Mouse)
Biological Activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using human TF?1 cells is less than 0.5 ng/ml, corresponding to a specific activity of >2.0x10 ⁶ IU/mg.
Purity	>95% as determined by SDSPAGE.
Sequence	MSQREGSLED HQTDSISFL PHLEAKIRQT HNLARLLTKY AEQLLEEYVQ QQGEPFGLPG FSPRLPLAG LSGPAPSHAG LPVSELRQD AAALSVLPAL LDAVRRRQAE LNPRAPRLLR SLEDAARQVR ALGAAVETVL AALGAAARGP GPEPVTVAL FTANSTAGIF SAKVLGFHVC GLYGEWVSRT EGDLGQLVPG GVA
Research Area	Immunology
Source	E.coli
Target Names	Ctf1
Expression Region	1-203aa
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	21.5 kDa
Protein Length	Full Length
PubMed ID	7862649; 15489334
Image	



Description

Introducing Recombinant Mouse Ctf1, a high-quality protein tailored for immunology research. This full-length protein encompasses the 1-203aa expression region of Cardiotrophin-1, a crucial cytokine involved in cardiac development and function. Produced in *E. coli* without any tags, Recombinant Mouse Ctf1 provides a pure and unaltered option for researchers seeking to study the role of CT-1 in various biological processes.

Our Recombinant Mouse Ctf1 boasts a purity of >95% as confirmed by SDS-PAGE and HPLC, ensuring consistent and reliable results in your experiments. Furthermore, the endotoxin levels are maintained at less than 1.0 EU/μg, as determined by the LAL method, to minimize the risk of contamination or interference in your research. The biological activity of this protein is confirmed by a cell proliferation assay using human TF-1 cells, with an ED₅₀ of less than 0.5 ng/ml, indicating a specific activity of $\geq 2.0 \times 10^6$ IU/mg.

Available in lyophilized powder form, Recombinant Mouse Ctf1 offers convenient storage and use for a range of experimental applications. Choose this high-quality protein for a reliable and efficient resource in your immunology research endeavors.

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.