Datasheet for ABIN2017713

Cardiotrophin 1 Protein (CTF1) (AA 2-203)

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Overview

Quantity:	50 µg
Target:	Cardiotrophin 1 (CTF1)
Protein Characteristics:	AA 2-203
Origin:	Mouse
Source:	HEK-293T Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	The EC50 value of Mouse Cardiotrophin-1 determined by the dose-dependent proliferation of TF-1 cells was ≤ 1.25 ng/mL, corresponding to a specific activity of ≥ 0.8 x 10^6 units/mg.
Purity:	> 95 % as analyzed by SDS-PAGE.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	Cardiotrophin 1 (CTF1)
Alternative Name:	Cardiotrophin-1(CT-1) (CTF1 Products)
Background:	Cardiotrophin-1 (CT-1) is a member of the cytokine family which also includes IL-6, IL-11, leukemia inhibitory factor (LIF), oncostatin M (OSM), and ciliary neurotrophic factor (CNTF). CT-1 is associated with the pathophysiology of several types of heart disease including hypertension, myocardial infarction, valvular heart disease, and congestive heart failure. The

Target Details

	protein exerts its cellular effects by interacting with the glycoprotein 130 (gp130)/leukemia inhibitory factor receptor beta (LIFR) heterodimer. CT-1 activates phosphatidylinositol 3-kinase (PI-3 kinase) in cardiac myocytes and enhances transcription factor NF-kappaB DNA -binding activities. CT-1 is highly expressed in the heart, skeletal muscle, prostate and ovary and to lower levels in lung, kidney, pancreas, thymus, testis and small intestine.Recombinant mouse Cardiotrophin-1 produced in HEK293 cells is a polypeptide chain containing 202 amino acids. A fully biologically active molecule, rmCT-1 has a molecular mass of 22-27 kDa analyzed by reducing SDS-PAGE. Synonyms: CTF1, CT-1
Molecular Weight:	22-27 kDa, observed by reducing SDS-PAGE.
UniProt:	Q60753
Pathways:	JAK-STAT Signaling

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstituted in ddH2O or PBS at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against PBS.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant Mouse Cardiotrophin-1 remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Mouse Cardiotrophin-1 should be stable up to 1 week at 4 °C or up to 3 months at -20 °C.
Expiry Date:	6 months