

Size: 50.0 ug

Cardiotrophin-1 (CT-1) is a member of the cytokine family which also includes IL-6, IL-11, IL-18, LIF, CNTF, OSM. CT-1 has since been shown to be a pleiotrophic cytokine with overlapping actions with other IL-6 family members on a variety of cell types. Biologically active human CT-1 is synthesized as a 201 amino acid polypeptide lacking a hydrophobic N-terminal secretion signal sequence. Recombinant Human CT-1 is a 21.1 kDa protein consisting of 200 amino acid residues.

00001	SRREGSLEDPT	QTDSSVSLLP	HLEAKIRQTH	SLAHLTKYA
00041	EQLLQEYVQL	QGDPFGLPSF	SPRLPVAGL	SAPAPSHAGL
00081	PVHERLRDLA	AALAALPLL	DAYCRRQAE	NPRAPRLRR
00121	LEDAARQARA	LGAAVEALLA	ALGAANRGRP	AEPPAATASA
00161	ASATGVFPAP	VLGLRVCGLY	REWLRSRTEG	LGQLLPGGSA
00201				

Biological Activity: ED₅₀ < 0.4 ng/ml, measured in a cell proliferation assay using TF-1 cells.

Molecular Weight: 24 26kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/ml.

Purity: > 95% as analyzed by SDS-PAGE.

Endotoxin Level: < 0.2 EU/μg, determined by LAL method.

Storage: Lyophilized recombinant Human Cardiotrophin-1(CT-1) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human Cardiotrophin-1(CT-1) should be stable up to 1 week at 4°C or up to 2 months at -20°C.