

Overview

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| Synonyms | CT-1 |
| Description | Cardiotrophin-1 (CT-1) is a member of the cytokine family which also includes IL-6, IL-11, IL-13, IL-15, IL-17, IL-18, IL-21, IL-22, IL-23, IL-24, IL-25, IL-26, IL-27, IL-28, IL-29, IL-30, IL-31, IL-32, IL-33, IL-34, IL-35, IL-36, IL-37, IL-38, IL-39, IL-40, IL-41, IL-42, IL-43, IL-44, IL-45, IL-46, IL-47, IL-48, IL-49, IL-50, IL-51, IL-52, IL-53, IL-54, IL-55, IL-56, IL-57, IL-58, IL-59, IL-60, IL-61, IL-62, IL-63, IL-64, IL-65, IL-66, IL-67, IL-68, IL-69, IL-70, IL-71, IL-72, IL-73, IL-74, IL-75, IL-76, IL-77, IL-78, IL-79, IL-80, IL-81, IL-82, IL-83, IL-84, IL-85, IL-86, IL-87, IL-88, IL-89, IL-90, IL-91, IL-92, IL-93, IL-94, IL-95, IL-96, IL-97, IL-98, IL-99, IL-100, IL-101, IL-102, IL-103, IL-104, IL-105, IL-106, IL-107, IL-108, IL-109, IL-110, IL-111, IL-112, IL-113, IL-114, IL-115, IL-116, IL-117, IL-118, IL-119, IL-120, IL-121, IL-122, IL-123, IL-124, IL-125, IL-126, IL-127, IL-128, IL-129, IL-130, IL-131, IL-132, IL-133, IL-134, IL-135, IL-136, IL-137, IL-138, IL-139, IL-140, IL-141, IL-142, IL-143, IL-144, IL-145, IL-146, IL-147, IL-148, IL-149, IL-150, IL-151, IL-152, IL-153, IL-154, IL-155, IL-156, IL-157, IL-158, IL-159, IL-160, IL-161, IL-162, IL-163, IL-164, IL-165, IL-166, IL-167, IL-168, IL-169, IL-170, IL-171, IL-172, IL-173, IL-174, IL-175, IL-176, IL-177, IL-178, IL-179, IL-180, IL-181, IL-182, IL-183, IL-184, IL-185, IL-186, IL-187, IL-188, IL-189, IL-190, IL-191, IL-192, IL-193, IL-194, IL-195, IL-196, IL-197, IL-198, IL-199, IL-200. CT-1 has since been shown to be a pleiotropic 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. |
| Accession No | Q16619 |
| Species | Human |
| Source | CHO |
| Biological Activity | ED ₅₀ < 0.4 ng/ml, measured in a cell proliferation assay using TF-1 cells. |
| Sequence | SRREGSLEDP QTDSVSLLP HLEAKIRQTH SLAHLTKYA EQLLQEYVQL QGDPFGLPSF SPRLPVAGL SAPAPSHAGL PVHERLRLDA AALAALPPLL DAVCRRQAEL NPRAPRLRR LEDAARQARA LGAAVEALLA ALGAANRGPR AEPPAATASA ASATGVFPAK VLGLRVCGLY REWLSRTEGD LGQLLPGGSA |

Properties

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| Measured Molecular Weight | 24~26kDa, observed by reducing SDS-PAGE. |
| Purity | > 95% as analyzed by SDS-PAGE. |
| Formulation | Lyophilized after extensive dialysis against PBS. |
| Reconstitution | Reconstituted in ddH ₂ O or PBS at 100 µg/ml. |
| 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. |
| Note | For research use only |

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