Overview

Synonyms	Urogastrone, URG
Description	**Tumor Necrosis Factor-alpha (TNF-±)** plays a major role in growth regulation, differentiation, inflammation, viral replication, tumorigenesis, and autoimmune disease and in viral, bacterial, fungal, and parasitic infections. Besides inducing hemorrhagic necrosis of tumors, TNF has been found to be involved in tumorigenesis, tumor metastasis, viral replication, septic shock, fever, inflammation, and autoimmune disease including Crohn's disease, rheumatoid arthritis and graft-versus-host disease. Recombinant **Rabbit TNF-±** produced in E. coli is a single non-glycosylated polypeptide chain containing 156 amino acids. A fully biologically active molecule, recombinant Rabbit TNF-± has a molecular mass of 17.3 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Accession No	NP_001075732
Source	*E. coli*
Biological Activity	ED_{50} < 40 pg/ml, measured in a cytotoxicity assay using L-929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D, corresponding to a specific activity of >2.5 x 10^7 units/mg.
Sequence	LRSASRALSD KPLAHVVANP QVEGQLQWLS QRANALLANG MKLTDNQLVV PADGLYLIYS QVLFSGQGCR SYVLLTHTVS RFAVSYPNKV NLLSAIKSPC HRETPEEAEP MAWYEPIYLG GVFQLEKGDR LSTEVNQPEY LDLAESGQVY FGIIAL

Properties

Measured Molecular Weight	17.3 kDa, observed by reducing SDS-PAGE.
Purity	> 98% as analyzed by SDS-PAGE&HPLC.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS.
Reconstitution	Reconstituted in sterile ddH_2O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant **Rabbit TNF-±** remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Rabbit TNF-± should be stable up to 1 week at 4°C or up to 3 months at -20°Cunder sterile conditions. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.
Note	For research use only

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