

SA1000**Bovine Tumor necrosis factor (TNF-alpha) - Purified**

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| Alternate names: | Cachectin, TNF, TNF-a, TNFA, TNFSF2, Tumor necrosis factor ligand superfamily member 2 |
| Quantity: | 20 µg |
| Background: | Bovine Tumour Necrosis Factor alpha (TNF alpha) is produced by a range of cells, including macrophages, monocytes, T and B lymphocytes. TNF alpha is an important mediator of the bovine inflammatory response. This Protein has an ED50 in the range of 1-10 ng/ml, determined by measuring the cytolytic effect of recombinant bovine TNF alpha on murine WEHI-13VAR-164 cells in the presence of Actinomycin D. |
| Uniprot ID: | Q06599 |
| NCBI: | NP_776391.2 |
| GenID: | 280943 |
| Species: | Bovine |
| Source: | <i>Pichia pastoris</i> |
| Format: | State: Lyophilized purified protein Purity: >95% pure by SDS PAGE analysis Buffer System: PBS. Further dilutions should be made in a buffer containing carrier protein. Preservatives: None Stabilizers: None Endotoxin Level: < 0.05 EU/µg Reconstitution: Restore with 0.5 ml distilled water. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. We recommend that the vial is gently mixed after reconstitution. |
| Applications: | ELISA: SA1000 May be used as a standard with SM2216P or SM2228B. Functional Assays. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. |
| Description: | Recombinant Bovine TNF alpha expressed in <i>Pichia pastoris</i> . Biological Activity: ED ₅₀ is in the range of 10-25 ng/ml, determined by measuring the cytolytic effect of recombinant Bovine TNF alpha on murine WEHI-13VAR cells in the presence of Actinomycin D. Molecular weight: 17.4 kDa |
| Storage: | Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing. Shelf life: one year from despatch. |

General Readings:

1. Simojoki H, Salomäki T, Taponen S, Iivanainen A, Pyörälä S. Innate immune response in experimentally induced bovine intramammary infection with *Staphylococcus simulans* and *S. epidermidis*. *Vet Res.* 2011 Mar 17;42:49. doi: 10.1186/1297-9716-42-49. PubMed PMID: 21414189.