

Bovine TNF-alpha Recombinant Protein

Product Details

Size	20 µg
Species	Bovine
Expression System	Yeast
Amino acid sequence	Bovine TNF-alpha, amino acids 77-233 (Accession # Q06599)
Molecular weight	17.4 kDa
Class	Recombinant
Type	Protein
Activity	ED50 = 28.4 - 42.7 ng/mL; determined by the dose-dependent cytolytic effect on mouse WEHI-13VAR cells in the presence of Actinomycin D.
Conjugate	Unconjugated
Form	Lyophilized
Purification	purified
Storage buffer	PBS
Contains	no preservative
Storage conditions	4° C

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	-
ELISA (ELISA)	Assay-dependent	-
Immunoprecipitation (IP)	Assay-dependent	-
Miscellaneous PubMed (Misc)	-	4 Publications

Product Specific Information

For dilution, use a buffer containing carrier protein, e.g. PBS with 1% BSA or a neutral media containing 10% FCS and freeze in aliquots at -70°C.

Activity: The biological activity of recombinant bovine TNFα was measured by its cytolytic effect on mouse WEHI-13VAR cells in the presence of Actinomycin D. The ED50 (or 1 unit of activity) for this effect in our laboratories typically falls into the range of 28.4 – 42.7 ng/mL.

Expression: The mature, soluble form of bovine TNF-alpha was expressed in *Pichia pastoris*, KM71H. GenBank® Accession # Q06599, amino acids 77 - 233. For protein verification, the expressed protein was N-terminal sequenced and begins with the following 10 amino acids: LRSSSQASSN.

Reconstitute with 0.5 mL of distilled water.

4 References

Miscellaneous PubMed (4)

Journal of dairy science

Dietary energy level affects adipose depot mass but does not impair in vitro subcutaneous adipose tissue response to short-term insulin and tumor necrosis factor- challenge in nonlactating, nonpregnant Holstein cows.

Authors: Lopreiato V, Hosseini A, Rosa F, Zhou Z, Alharthi A, Trevisi E, Loor JJ

Species
Not Applicable

Dilution
Not Cited

Year
2018

European cells & materials

Reduced tissue osmolarity increases TRPV4 expression and pro-inflammatory cytokines in intervertebral disc cells.

Authors: Walter BA, Purrmessur D, Moon A, Occhiogrosso J, Laudier DM, Hecht AC, Iatridis JC

Species
Not Applicable

Dilution
Not Cited

Year
2016

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