

Bovine Transforming Growth Factor beta-2 Reference standard

Cat. No. TGFB2-97B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	As a biological reference standard for transforming growth factor-beta2 (TGF- β 2).
Species	Bovine
Enzyme Unit	5,000 Units of biological activity per ampoule.
Usage	No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution. Dissolve the total contents of the ampoule with 0.5ml of sterile distilled water. Rinse the ampoule with about 0.4ml of sterile distilled water and make up the total volume to 1.0ml with sterile distilled water. This solution should now contain TGF beta 2 at a concentration of 5,000 Units/ml. Use carrier protein where extensive dilution is required.
Notes	This preparation is not for administration to humans. The preparation contains material of human origin, and either the final product or the source materials, from which it is derived, have been tested and found negative for HBsAg, anti-HIV and HCV RNA. The bovine TGF- β 2 was sourced from a country where bovine spongiform encephalopathy (BSE) has not been found. As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your own laboratorys safety procedures. Such safety procedures should include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening ampoules or vials, to avoid cuts.

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Stability

Reference materials are held at Creative Biomart within assured, temperature-controlled storage facilities and they should be stored on receipt as indicated on the label. Accelerated degradation studies have indicated that this material is suitably stable, when stored at -20°C or below, for the assigned values to remain valid until the material is withdrawn or replaced. These studies have also shown that the material is suitably stable for shipment at ambient temperature without any effect on the assigned values. Once reconstituted, diluted or aliquoted, users should determine the stability of the material according to their own method of preparation, storage and use. Users who have data supporting any deterioration in the characteristics of any reference preparation are encouraged to contact Creative Biomart.

Storage

For economy of use, it is recommended that the solution be sub divided into several small aliquots and stored at -40°C or below. Unopened ampoules should be stored at -20°C. Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.

GENE INFORMATION

Gene Name	TGFB2 transforming growth factor, beta 2 [<i>Bos taurus</i>];
Official Symbol	TGFB2
Synonyms	MGF; transforming growth factor beta-2; TGF-beta-2; milk growth factor
Gene ID	534069
mRNA Refseq	NM_001113252
Protein Refseq	NP_001106723
UniProt ID	P21214

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Chromosome Location	chromosome: 16
Pathway	Amoebiasis, organism-specific biosystem; Chronic myeloid leukemia, organism-specific biosystem; Dilated cardiomyopathy, organism-specific biosystem
Function	beta-amyloid binding; growth factor activity; protein homodimerization activity

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