Human Transforming Growth Factor-BETA 3 Reference standard

Cat. No. TGFB3-31H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This preparation is the primary biological standard for Transforming Growth Factor - Beta 3 (TGF-β3).
Species	Human
Enzyme Unit	19,000 International 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 in 1.0 ml of 0.1% acetic acid. The solution will contain TGF-β3 at a concentration of 19,000 IU/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. 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.
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

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45-1 Ramsey Road, Shirley, NY 11967, USA

	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is suitably stable, when stored at -20°C or below, for the assigned values to remain valid until the material is withdrawn or replaced.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. Avoid repeated thawing/freezing. 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	TGFB3 transforming growth factor, beta 3 [Homo sapiens];
Official Symbol	TGFB3
Synonyms	TGFB3; transforming growth factor, beta 3; transforming growth factor beta-3; TGF-beta-3; ARVD; TGF-beta3; FLJ16571;
Gene ID	7043
mRNA Refseq	NM_003239
Protein Refseq	NP_003230
MIM	190230

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UniProt ID	P10600
Chromosome Location	14q24
Pathway	ALK1 signaling events, organism-specific biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem;
Function	growth factor activity; identical protein binding; protein binding; contributes_to protein binding; protein heterodimerization activity; transforming growth factor beta binding; transforming growth factor beta receptor binding; type I transforming growth factor beta receptor binding; type II transforming growth factor beta receptor binding; type II transforming growth factor beta receptor binding;

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