

Recombinant Human Transforming Growth Factor, Beta 3

Cat. No. TGFB3-349H Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	Sf21 Cells
Description	Transforming growth factor-beta 3 (TGF-beta 3) is a member of the TGF beta family of growth factors. It is involved in oxygen-dependent differentiation processes during placental development and pregnancy disorders. It also play an important role in wound repair and scarring.
Molecular Weight	The predicted molecular weight of Recombinant Human TGF- β 3 is Mr 25 kDa.
State Of Matter	Lyophilized.
Purity	>97% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Formulation	This recombinant protein was lyophilized from a 0.2 μ m filtered solution in 40% acetonitrile (CH ₃ CN) and 0.1% trifluoroacetic acid (TFA).
Biological Activity	The biological activity of Human TGF- β 3 was determined by its ability to inhibit the IL-4-dependent proliferation of mouse HT-2 cells. The expected ED50 for this effect is typically 0.03 - 0.08 ng/ml.

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Storage And Stability

This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

GENE INFORMATION

Gene Name	TGFB3 transforming growth factor, beta 3 [Homo sapiens]
Synonyms	Transforming Growth Factor-beta3; TGFB3; ARVD; FLJ16571; TGF-beta3; transforming growth factor, beta 3
Gene ID	7043
mRNA Refseq	NM_003239
Protein Refseq	NP_003230
MIM	190230
UniProt ID	P10600
Chromosome Location	14q24
Pathway	Cell cycle; Chronic myeloid leukemia; Colorectal cancer; Cytokine-cytokine receptor interaction; Hypertrophic cardiomyopathy (HCM); MAPK signaling pathway; Pancreatic cancer; Pathways in cancer; Renal cell carcinoma; TGF-beta signaling pathway
Function	Growth factor activity; Identical protein binding; Protein heterodimerization activity;

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Transforming growth factor beta binding; Type I transforming growth factor beta receptor binding; Type II transforming growth factor beta receptor binding

PDB rendering based
on 1ktz.

