

Cytokines

Human/Mouse Recombinant TGF-beta 3

Transforming growth factor beta 3



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Catalog # 78131	10 µg	0.25 mg/mL
78131.1	100 µg	0.25 mg/mL
78131.2	4 x 250 µg	0.25 mg/mL

Product Description

Transforming growth factor (TGF) beta 3 is a member of the TGF-β superfamily and regulates diverse cellular phenotypes. TGF-beta 3 binds to serine-threonine kinase type I and II receptors and activates signal transduction through SMAD2/3 proteins, thus regulating a variety of functions, including cell proliferation, differentiation, wound healing, apoptosis, and metabolism (Massagué; McDowell et al.). TGF-beta 3 enhances glycosaminoglycan production by mesenchymal stromal cells, stimulates scar-free healing, and improves glucose tolerance and phenotypic changes in adipocyte morphology (Hall et al.; Holton et al.). TGF-beta 3 induces proliferation of posterofrontal suture-derived mesenchymal stromal cells, and stimulates expression of fibroblast growth factors 2 and 18 (James et al.).

Product Information

Alternative Names:	ARVD, FLJ16571, TGFB3, TGF-b3, Transforming growth factor beta-3
Accession Number:	P10600
Amino Acid Sequence:	MALDTNYCFR NLEENCCVRP LYIDFRQDLG WKWVHEPKGY YANFCSGPCP YLRSADTTHS TVLGLYNTLN PEASASPCCV PQDLEPLTIL YYVGRTPKVE QLSNMVVKSC KCS
Predicted Molecular Mass:	12.9 kDa monomer; 25.7 kDa dimer
Species:	Human, Mouse
Formulation:	Sterile-filtered liquid containing 10 mM acetic acid and 20% ethanol.
Source:	<i>E. coli</i>

Specifications

Activity:	The specific activity is $\geq 1.0 \times 10^6$ units/mg ($EC_{50} \leq 1$ ng/mL) as determined by the ability to inhibit IL-4-induced HT-2 cell proliferation.
Purity:	$\geq 95\%$
Endotoxin Level:	Measured by kinetic Limulus amoebocyte lysate (LAL) analysis and is ≤ 1 EU/µg protein.

Preparation and Storage

Storage:	Store at 2 - 8°C.
Stability:	Stable as supplied for 12 months from date of receipt.
Preparation:	Centrifuge vial before opening. Do not vortex. Store at 2 - 8°C for up to 12 months from date of receipt. Do not freeze.

