

Human TGF-β3

Description

TGF-β3 (transforming growth factor beta 3) is one of three closely related mammalian members of the large TGF-β super family that share a characteristic cysteine-knot structure. TGF-β1, -β2 and -β3 are highly pleiotropic cytokines that regulate immune function, proliferation and epithelial mesenchymal transition. Each TGF-β isoform has some non-redundant functions. So mice with a targeted deletion of TGF-β3 show defects in palatogenesis and pulmonary development. Human TGF-β3 cDNA encodes a 412 amino acid precursor that contains a 20 amino acid signal peptide and a 392 amino acid precursor. A furin-like convertase processes the precursor to generate an N terminal 220 amino acid latency associated peptide and a C terminal 112 amino acid mature TGF-β3. Mature human TGF-β3 shows 100%, 99% and 98% identity with mouse/dog/horse, rat and pig TGF-β3, respectively.

References

Derynk R *et al* (1988) EMBO Journal **7**, 3737-3743
Sporn MB (2006) Cytokine and Growth Factor Reviews **17**, 3-7

Source:	Produced in <i>E.coli</i> .
Molecular Weight:	25,427 daltons
Purity:	>95 % (by HPLC analysis)
N-terminal sequence:	Analysis of 5 residues
Biological Activity:	Inhibition of proliferation in mink lung epithelial cells (Mv1Lu) (IC ₅₀ < 0.75 ng/ml)
Endotoxin:	< 0.1 EU/μg
Appearance:	White powder freeze-dried with mannitol.
Storage/Stability:	At least 2 years at 2-4°C (as a freeze dried product).
Reconstitution:	Reconstitute in acetic acid at pH <3.8 in 20% ethanol at a concentration of > 50 μg/ml.

Product Codes and Pricing

Human TGF-β3	20 μg	BJU020
	100 μg	BJU100

Related Products:

****NOT FOR USE IN HUMANS****

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