

## Recombinant Human TGF Beta-1 (TGFB1)

Cat No:HR2R1998

For research use only

### Overview

Quantity	20 ?g
Gene Symbol	TGFB1
Gene ID	7040
Accession	P01137
Alternative Name	Transforming growth factor beta-1, TGF-beta-1, Differentiation inhibiting factor, Latency-associated peptide, LAP
Species	Human
Source	HEK293 cells
Description	TGFB1 is the prototype member of the TGF-beta super-family that includes Inhibins, Activin A, MIS (M?llerian inhibiting substance), BMP (bone morphogenetic proteins), dpp (decapentaplegic) and Vg-1. TGFB1 is the most potent known growth inhibitor for normal and transformed epithelial cells, endothelial cells, fibroblasts, neuronal cells, lymphoid cells and other hematopoietic cell types. TGF-beta inhibits the proliferation of T lymphocytes by down-regulating predominantly IL2 mediated proliferative signals and also inhibits the growth of natural killer cells. Recombinant human TGFB1 is a disulfide linked homodimer protein that migrates at approximately 26kDa under non-reducing conditions.
Functions	The ED50 as determined by the ability to inhibit the proliferation of mink lung epithelial cells was found to be in the range of 0.05-0.1 ng/ml
Formulation	Lyophilized from 0.2 ?m filtered PBS solution pH 7.4
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	26
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method
Shipping Condition	Ambient Temperature
Storage Condition	Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months. Avoid repeated freeze/thaw cycles.