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1. Description

Products	Human TGF- β 2, research grade. Recombinant human transforming growth factor β 2.				
	<table border="1"> <thead> <tr> <th>Content in μg</th><th>Order no.</th></tr> </thead> <tbody> <tr> <td>10</td><td>130-123-657</td></tr> </tbody> </table>	Content in μ g	Order no.	10	130-123-657
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10	130-123-657				
Biological activity	The ED ₅₀ is ≤ 0.2 ng/mL corresponding to an activity of $\geq 5 \times 10^6$ U/mg. Note: The ED ₅₀ was determined by the ability of human TGF- β 2 to inhibit the mouse IL-4-dependent proliferation of mouse HT-2 cells.				
Primary structure	Two identical, non-glycosylated disulfidelinked polypeptide chains (112 amino acid residues without LAP).				
Molecular mass	25.4 kDa (dimer).				
Source	Produced in HEK293 cells.				
Product format	Lyophilized from a filtered (0.2 μ m) buffer solution.				
Stabilizer	None.				
Purity	>95% as determined by SDS-PAGE analysis.				
Endotoxin level	Low endotoxin (<1.0 EU/ μ g cytokine) as determined by Limulus Amebocyte Lysate (LAL) assay.				
Storage	Lyophilized Human TGF- β 2, research grade should be stored at -20°C . The expiration date is indicated on the vial label. Upon reconstitution aliquots should be stored at -20°C or below. Avoid repeated freeze-thaw cycles.				
Reconstitution	It is recommended to reconstitute lyophilized Human TGF- β 2, research grade with deionized sterile-filtered water to a final concentration of 0.1–1.0 mg/mL in a minimal volume of 50 μ L. Further dilutions should be prepared with 0.1% bovine serum albumin (BSA) or human serum albumin (HSA) in phosphate-buffered saline.				

1.1 Background information

Human transforming growth factor β 2 (TGF- β 2) is a member of a superfamily of homologous, disulfide-linked, homodimeric proteins that regulate the proliferation and differentiation of normal and transformed cells. Human TGF- β 2 is a 25.4 kDa protein with each subunit containing 112 amino acid residues.

1.2 Applications

Human TGF- β 2 may be used for a variety of applications, including:

- Mechanisms of tumor development.
- Tissue-engineering, organ development, and embryogenesis.
- Investigation of TGF- β -receptor signaling pathway.

Optimal concentration for a specific application should be determined by a dose-response experiment.

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