

PRODUCT INFORMATION

Croyez GMP® TGF beta 1
(Transforming growth factor beta 1), Human

v. 240101

Catalog number	C01088-GMP-100 / C01088-GMP-1000
Package	100 µg / 1 mg
Description	Transforming growth factor beta 1 (TGF beta 1) is a polypeptide member of the transforming growth factor beta superfamily of cytokines. It is a secreted protein that performs many cellular functions, including the control of cell growth, cell proliferation, cell differentiation, and apoptosis. In humans, TGF-β1 is encoded by the TGFB1 gene.
Expression System	<i>Escherichia coli</i>
Species of Origin	Human
Affinity Tag	His Tag (C-term)
Sequence	Ala279-Ser390
Endotoxin level	<0.05 EU per 1 µg of the protein by the LAL method.
Activity	Measure by its ability to inhibit the IL-4 dependent proliferation in TF-1 cells. The ED ₅₀ for this effect is <0.1 ng/mL. The specific activity of recombinant human TGF beta 1 is approximately >1 x 10 ⁷ IU/mg, which is calibrated against the human TGF beta 1 WHO International Standard (NIBSC code: 89/514). Measure by its ability to induce proliferation in MCF-7 cells The ED ₅₀ for this effect is <3.2 ng/mL.
Purity	>98% as determined by SDS-PAGE analysis.
Mycoplasma	Not detected
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 0.5 mg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Stability & Storage	This product is stable after storage at: <ul style="list-style-type: none"> • -20°C for 12 months in lyophilized state from date of receipt. • -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

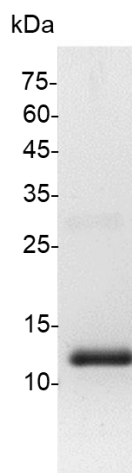
Specification

Croyez GMP® recombinant proteins are manufactured in ISO 13485:2016 and GMP-certified facility. The processes include:

- Escherichia coli
 - Animal-free reagent and laboratory
 - Testing and traceability of raw material
 - Records of the maintenance and equipment calibration
 - Personnel training records
 - Batch-to-batch consistency
 - Documentation of QA control and process changes
 - Manufactured and tested under an ISO 13485:2016 certified quality management system
 - Stability monitor of product shelf-life
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Reference

1. Khalil N. (1999) Microbes Infect. 1,15: 1255-63.
 2. Kim KK. et al. (2018) Cold Spring Harb Perspect Biol. 10,4: a022293.
 3. Wang XJ. et al. (2006) J Investig Dermatol Symp Proc. 11,1: 112-7.
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SDS-PAGE analysis of Croyez GMP® TGF beta 1, Human

For Research Use Only. Not for use in diagnostic or therapeutic procedures.