

Catalog number GF-TGFB1-HU

Recombinant Human TGF-1

CHO-expressed recombinant human TGF-1, $\geq 97\%$ pure with endotoxin below 0.1 EU/ μg . A 25 kDa disulfide-linked homodimer of two 112-residue chains, and a potent regulator of proliferation, differentiation, and ECM production.

Specification

Species	Human
Expressed in	CHO cells
UniProt	P01137
Accession	NP_000651.3
Residue range	Ala279-Ser390, disulfide-linked homodimer (112 aa per chain)
Molecular weight	25 kDa (SDS-PAGE, non-reducing (disulfide-linked homodimer))
Purity	$\geq 97\%$ (SDS-PAGE & SEC-HPLC)
Endotoxin	≤ 0.1 EU/ μg (LAL)
Bioactivity	ED50 0.04-0.2 ng/mL, murine HT-2 T-cell growth-inhibition
Carrier	carrier-free
Formulation	Sterile-filtered solution in 4 mM HCl, 0.2 μm filtered. Supplied frozen; carrier-free by default (a 0.1% BSA carrier option is also available). The acidic formulation is deliberate: mature TGF-1 aggregates and adsorbs to plastic near neutral pH, so it is held below pH 4 until dilution.
Reconstitution	Supplied ready to use, no reconstitution required. Thaw on ice and dilute directly into assay buffer.
Storage	-80 °C. Aliquot on receipt to avoid repeated freeze/thaw.
Stability	12 mo at -80 °C; 1 wk at 2-8 °C once thawed. Do not refreeze.
Grade	Research use only

Ordering

Catalog no.	Pack	List price	Availability
GF - TGFB1 - HU - 2UG	2 μg	\$17	Waitlist
GF - TGFB1 - HU - 10UG	10 μg	\$49	Waitlist

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GF - TGFB1 - HU - 50UG	50 µg	\$147	Waitlist
GF - TGFB1 - HU - 100UG	100 µg	\$235	Waitlist

Storage and shipping

Cold chain	Frozen, on dry ice. Declared UN1845, dangerous goods class 9.
Hazard classification	None
Certificate of Analysis	Issued per lot and shipped with the product. Any lot can be retrieved at bramantebio.com/support/coa/

Research use only

For research use only. Not for use in diagnostic or therapeutic procedures, and not for human or veterinary use. The purchaser is responsible for determining suitability for their application and for compliance with applicable biosafety and institutional requirements.