

Recombinant Human TGF-β3 (Transforming Growth Factor-β3)








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

Rev. 2.00

Catalog Number:	PHG9305	PHG9302
Quantity/Volume:	5 µg provided in 20 µL (concentration: 250 µg/mL)	250 µg (concentration: 250 µg/mL)
Lot Number:	See product label.	
Molecular Weight:	25.4 kDa disulfide-linked homodimer, 112 amino acid residues in each subunit.	
Purity:	>98% by SDS PAGE and RP-HPLC analysis.	
Biological Activity:	ED ₅₀ ≤0.05 ng/mL (≥12.5 × 10 ⁶ IU/mg), determined in a toxicity assay using WHO Standard 98/608 for direct comparison.	
Formulation:	Purified recombinant TGF-β3 in an aqueous solution containing 20% ethanol and 0.12% acetic acid. Sterile filtered.	
Endotoxin:	<0.1 ng/µg	
Production:	Produced in <i>E. coli</i> and purified by sequential chromatography.	
Reconstitution Recommendation:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Dilutions should be made in aqueous buffers supplemented with carrier protein, such as 0.1% BSA or HSA.	
Suggested Working Dilutions:	The optimal concentration should be determined for each specific application.	
Storage:	Store at 2°C to 8°C. For maximal stability, apportion this liquid preparation into working aliquots and add a carrier protein, such as 0.1% BSA or HSA.	
Expiration Date:	Expires one year from date of receipt when stored as instructed.	
References:	<p>Van Themshe, C., et al. (2007) Transforming growth factor-beta3 increases the invasiveness of endometrial carcinoma cells through phosphatidylinositol 3-kinase-dependent up-regulation of X-linked inhibitor of apoptosis and protein kinase c-dependent induction of matrix metalloproteinase-9. <i>J. Biol. Chem.</i> 282(7):4794-4802.</p> <p>Bocharov. E.C., et al. (2002) Dynamics-modulated biological activity of transforming growth factor beta3. <i>J. Biol. Chem.</i> 277(48):46273-46279.</p> <p>Millan. F.A., et al. (1991) Embryonic gene expression patterns of TGF beta 1, beta 2 and beta 3 suggest different developmental functions in vivo. <i>Development</i> 111(1):131-143.</p> <p>Massague, J. (1990) The transforming growth factor-beta family. <i>Ann. Rev. Cell Biol.</i> 6:597-641.</p>	

Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description
	Catalog Number
	Research Use Only
	Use by
	Manufacturer
	Without, does not contain
	Protect from light
	Directs the user to consult instructions for use (IFU), accompanying the product.

Symbol	Description
	Batch code
	In vitro diagnostic medical device
	Temperature limitation
	European Community authorized representative
	With, contains
	Consult accompanying documents

Limited Use Label License: Research Use Only

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For Research Use Only. Caution: Not for human or animal therapeutic or diagnostic use.

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