

Product Information

Protein:	mature TGF-beta 1 (~ 12.8 kDa)
Uniprot#:	P01137
Sequence:	ALDTNYCFSSSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLDTQYSK VLALYNQHNP GASAAPCCVPQALEPLPIVYVYVGRKPKVEQLSNMIVRSCKCS
Source:	Recombinantly expressed in HEK293 cells.
Tag(s):	none
Purification:	Purified by affinity chromatography, subsequent buffer exchange and activation of mature TGF-beta 1.
Formulation:	PBS; pH 7.4. Lyophilized, stored at -80 °C and shipped at ambient temperature.
Purity:	> 90 % (will be determined by densitometry of Coomassie stained gel, example next page)
Concentration:	Will be determined by BCA-Assay.
Long-term storage:	For extended storage, further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA). Store working aliquots at -20 °C to -80 °C.

Background Information:

Transforming growth factor-beta 1 (TGF- β 1) is a pleiotropic cytokine involved in a myriad of cellular functions, including cell growth, differentiation, immune regulation and tissue homeostasis. It is a member of the TGF- β superfamily and exerts its effects by binding to specific cell surface receptors, thereby activating intracellular signaling pathways that mediate regulatory signals, controlling expression of target genes. Dysregulation of TGF- β 1 is implicated in numerous diseases, such as cancer, fibrosis, and autoimmune disorders. Understanding the complex functions and regulatory mechanisms of TGF- β 1 is essential for developing therapeutic strategies targeting its pathways and mitigating associated pathological conditions.



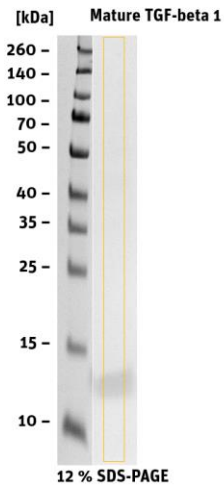
Structural model of TGF-beta 1

mature TGF-beta 1

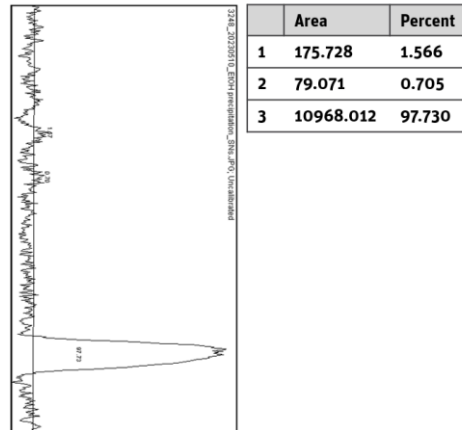
Cat. no. P2020-116

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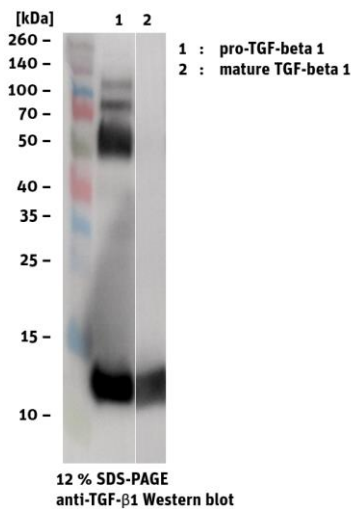
Quality Information (provided for each lot):



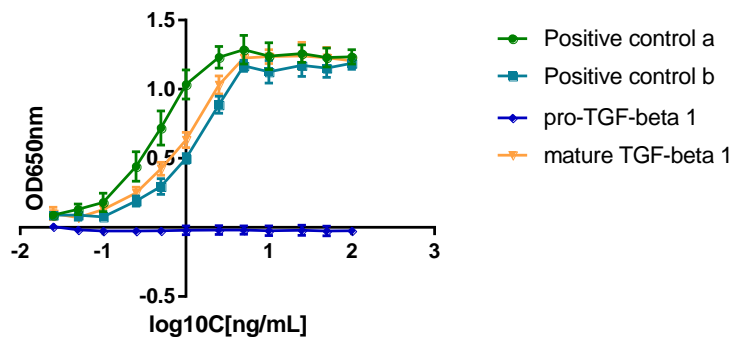
SDS-PAGE/Coll.Coomassie



Histogram (of marked lane in gel picture)



Western blot



Activity assay