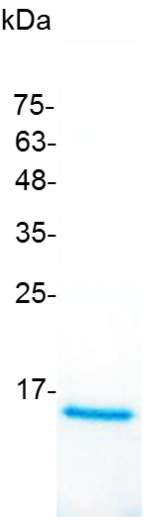
PRODUCT INFORMATION

TGF beta 1 (Transforming growth factor beta 1), Swine

v. 231101

Catalog number	C03015-5UG / C03015-20UG / C03015-100UG
Package	5 μg / 20 μg / 100 μg
Description	Transforming growth factor beta 1 or TGF-β1 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.
Source	*Escherichia coli*
Sequence	MALDTNYCFSSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHANFCLGPCPYIW SLDTQYSKVLALYNQHNPGASAAPCCVPQALEPLPIVYYVGRKPKVEQLSNMIV RSCKCS with polyhistidine tag at the C-terminus
Endotoxin level	<0.1 EU per 1 μg of the protein by the LAL method.
Activity	Measure by its ability to inhibit IL-4-induce proliferation in HT-2 cells. The ED_{50} for this effect is <0.1 ng/mL.
Purity	>98% as determined by SDS-PAGE.
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 μm filtered solution containing 20 mM sodium citrate and 0.2 M NaCl, pH 4.5.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 200 μg/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: • -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.



SDS-PAGE analysis of recombinant swine TGF beta 1

For research use only.