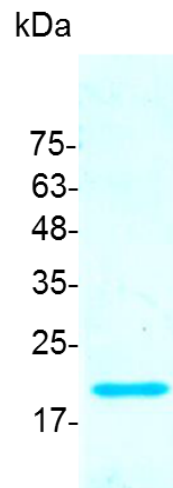


**TNF beta (Tumor necrosis factor beta), Human**

v. 231001

<b>Catalog number</b>	C01048-5UG / C01048-20UG / C01048-100UG
<b>Package</b>	5 µg / 20 µg / 100 µg
<b>Description</b>	<p>TNF-β works as a potential mediator in the inflammatory and immune process. It is a component of the TNF family of ligands, and signals through TNFR1 and TNFR2. TNF-β is secreted by activated T and B lymphocytes, and has a similar function to TNF-α. In the same manner as TNF-α, TNF-β is involved in the regulation of various biological processes, including cell proliferation, differentiation, apoptosis, lipid metabolism, coagulation, and neurotransmission. TNF-β is generally released as a soluble polypeptide. In addition, lymphotoxin-β can anchor TNF-β to the cell surface and form heterotrimers in an effective manner. TNF-β is cytotoxic to a wide range of tumor cells.</p>
<b>Source</b>	<i>Escherichia coli</i>
<b>Sequence</b>	<p>LPGVGLTPSAAQTARQHPKMHLAHLSTLKPAAHLIGDPSKQNSLLWRANTDRAF          LQDGFSLSNNSLLVPTSGIYFVYSQVVFSGKAYSPKATSSPLYLAHEVQLFSSQ          YPFHVPLLSSQKMVYPGLQEPWLHSMYHGAAFLTQQGDQLSTHTDGIPHLVLS          PSTVFFGAFAL with polyhistidine tag at the N-terminus</p>
<b>Endotoxin level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Activity</b>	<p>Measured by its ability to induce cytotoxicity in L929 cells in the presence of actinomycin D. The ED<sub>50</sub> for this effect is &lt;3 pg/mL. The specific activity of recombinant human TNF beta is &gt;3.3x 10<sup>8</sup> IU/mg.</p>
<b>Purity</b>	>98% as determined by SDS-PAGE.
<b>Form</b>	Lyophilized
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution containing 20 mM sodium citrate and 0.2 M NaCl, pH 3.5.
<b>Reconstitution</b>	<p>It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolution.</p>
<b>Stability &amp; Storage</b>	<p>This product is stable after storage at:</p> <ul style="list-style-type: none"> <li>-20°C for 12 months in lyophilized state from date of receipt.</li> <li>-20°C or -80°C for 1 month under sterile conditions after reconstitution.</li> </ul> <p>Avoid repeated freeze/thaw cycles.</p>



SDS-PAGE analysis of recombinant human TNF beta

*For research use only.*