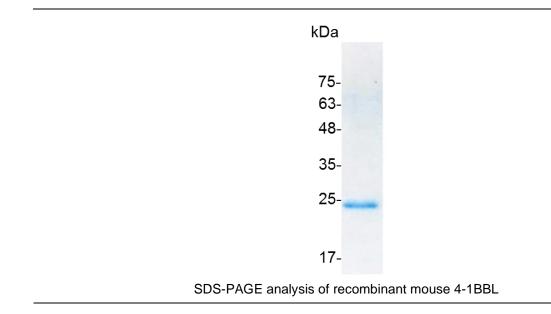


## 4-1BBL (4-1BB ligand), Mouse

v. 231101

Catalog number	C02057-5UG / C02057-20UG / C02057-100UG
Package	5 µg / 20 µg / 100 µg
Description	4-1BB Ligand Human Recombinant protein. 4-1BBL is a transmembrane cytokine that is part of the tumor necrosis factor (TNF) ligand family. Recombinant human 4-1BB ligand is intended for use in cell culture applications. 4-1BBL and its interaction with 4-1BB is involved in the antigen presenting process, proliferation of CD4 and CD8 positive T-cells, as well as cytokine secretion from T-cells.
Source	Escherichia coli
Sequence	MRTEPRPALTITTSPNLGTRENNADQVTPVSHIGCPNTTQQGSPVFAKLLAKNQ ASLCNTTLNWHSQDGAGSSYLSQGLRYEEDKKELVVDSPGLYYVFLELKLSPT FTNTGHKVQGWVSLVLQAKPQVDDFDNLALTVELFPCSMENKLVDRSWSQLL LLKAGHRLSVGLRAYLHGAQDAYRDWELSYPNTTSFGLFLVKPDNPWE with polyhistidine tag at the C-terminus
Endotoxin level	<0.1 EU per 1 $\mu$ g of the protein by the LAL method.
Activity	Measure by its ability to induce IL-2 secretion in mouse T cells in the presence of the anti-CD3 antibody. The ED <sub>50</sub> for this effect is <0.05 $\mu$ g/mL.
Purity	>95% as determined by SDS-PAGE.
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile $H_2O$ to a concentration not less than 200 $\mu$ g/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Stability & Storage	<ul> <li>This product is stable after storage at:</li> <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> <li>Avoid repeated freeze/thaw cycles.</li> </ul>





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