



## Recombinant Mouse BTLA Fc-Fusion Protein

Cat No: Pr00224-1.9

### Product Summary

**Description:** Recombinant mouse BTLA Fc-Fusion Protein manufactured using [AbAb's Recombinant Platform](#)

**Protein:** Mouse BTLA

**Fc domain:** Mouse IgG1

**Structure / Form:** Disulfide-linked homodimer

**Species:** Mouse

**Construct Design Note(s):** The extracellular domain of BTLA has been fused to the Fc domain of mouse IgG1.

**Host:** HEK293

**UniProt Accession Number:** Q7TSA3

**Alternative Description:** B- and T-lymphocyte attenuator; B- and T-lymphocyte-associated protein; CD272; BTLA-Ig; BTLA-Fc chimera; BTLA (Fc tag)

**Published Application(s):**

**Tested Applications(s):** ELISA

**Activity:** Lymphocyte inhibitory receptor which inhibits lymphocytes during immune response [Uniprot].

### Product Form

**Purification:** IMAC purified

**Supplied in:** 0.1 mg size: PBS with preservative (0.02% Proclin 300), 1 mg size: PBS only.

**Endotoxin:** <1.0 EU/mg

**Shipping:** The product is shipped on blue ice. Upon receipt, store it immediately at the temperature recommended.

**Storage Recommendation:** Store at 4°C for up to 1 month. For longer term storage aliquot in small volumes and store at -20°C. Avoid repeated freeze-thaw cycles.

**SDS PAGE Purity:** >95%, as determined by SDS-PAGE and visualized by Coomassie Brilliant Blue.

**Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals**

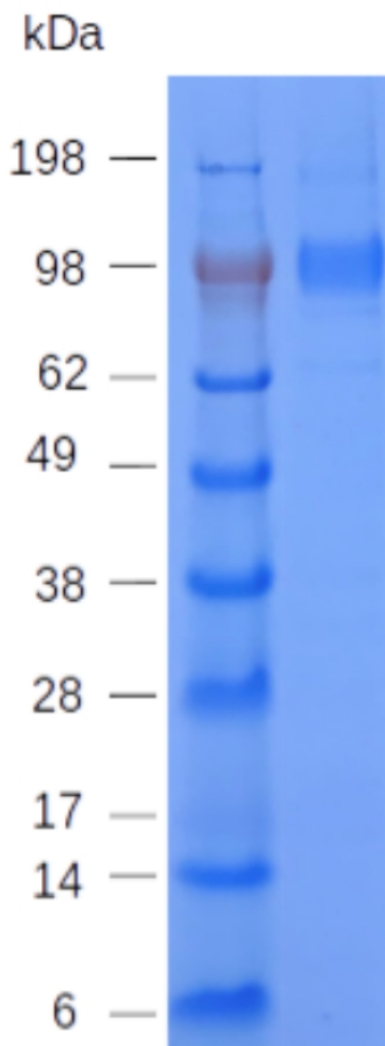
Cat No: Pr00224-1.9      Recombinant Mouse BTLA Fc-Fusion Protein  
**Fc-Fusion Sequence (monomer)**

KATKRNDDEECPVQLTITRNSKQSARTGELFKIQCPVKYCVHRPNVTWCKHNGTICVPLEVSPQLYTSWEENQSVPV  
LHFKPIHLSDNNGSYSCSTNFNSQVINSHSVTIHVRERTQNSSEHPLITVSDIPDATNASGPSTMEERPGRWLLYGGGG  
SVPRDQGCKPCICTVPEVSSVFIFPPKPKDVLITLTPKVTWVVDISKDDPEVQFSWFVDDVEVHTAQTKPREEQINST  
FRSVSELPIMHQDWLNGKEFKCRVNSAAFPAPIEKTISKTKGRPKAPQVYTIPPPKEQMAKDKVSLTCMITNFFPEDITV  
EWQWNGQPAENYKNTQPIMDTDGSYFVYSKLVNPKSNWEAGNTFTCSVLHEGLHNNHHTKSLSHSPGKHHHHHH

Underlined amino acids sequence include a G4S linker and 6xHis epitope tag, respectively.

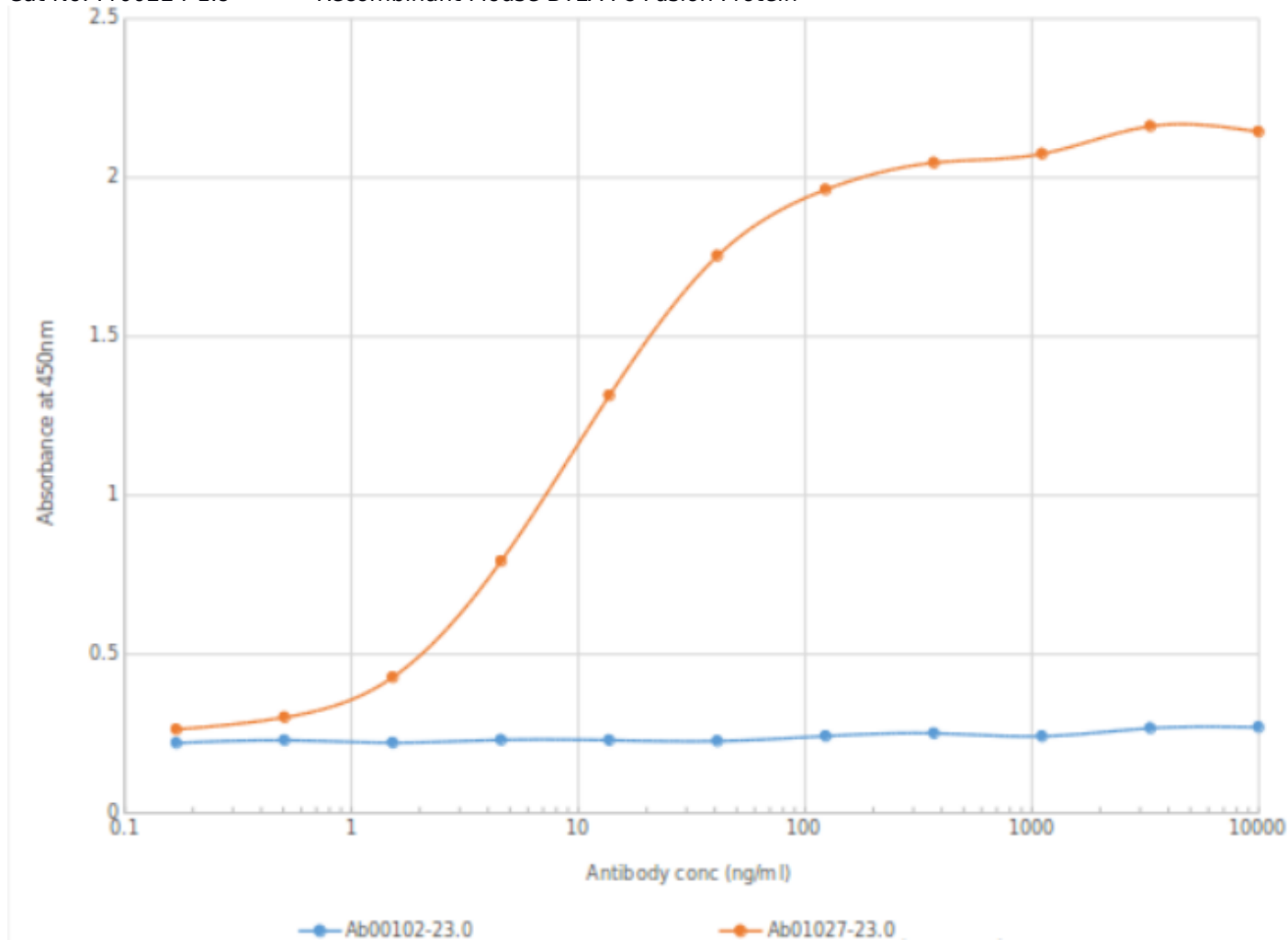
**Calculated Molecular weight (dimer):** 88076 Da

**Extinction coefficient:** 113940 (calculation performed as described by Pace *et al.* (1995), PMID: 8563639).



**BTLA (Pr00224-1.9) SDS-PAGE.** Pr00224-1.9 under non-reducing conditions resolved by SDS-PAGE and stained using Coomassie-Blue.

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**ELISA of anti-BTLA antibody on BTLA-Fc fusion protein.** Binding curves of the rabbit IgG chimeric version of the anti-BTLA antibody HMBT-6B2 (Ab001027-23.0; red line) and isotype control (Ab00102-23.0, anti-Fluorescein; blue line) to an ELISA plate coated with BTLA-Fc fusion protein (Pr00224-1.9) at a concentration of 5  $\mu$ g/ml. A 3-fold serial dilution from 10,000 to 0.17 ng/ml of Ab01027-23.0 was used. For signal detection, a 1:4000 dilution of anti-rabbit IgG1 (BioRad 5196-2504) antibody was used. The second increase in absorbance at 3333ng/ml is suggestive of a possible secondary binding epitope for Ab01027-23.0 on Pr00224-1.9.