# Anti-CD19-Anti-CD3 Bispecific Molecule

Catalog: 100441

Lot: 220726

## Product Information

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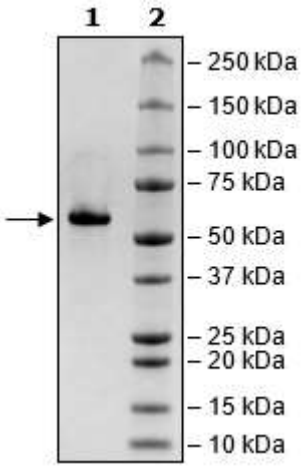
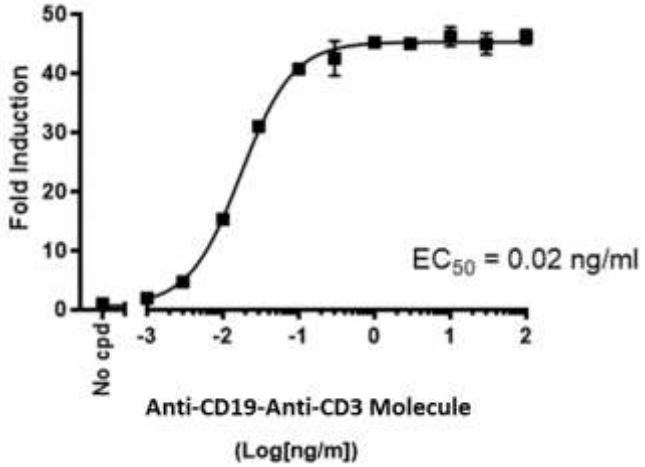
| **Description:** | Anti-CD19-Anti-CD3-His-Tag is a purified recombinant human bispecific T cell Engager (BiTE®). This molecule has been tested for specific activity in both ELISA binding assay to CD19-biotin and functional reporter assays using Jurkat/NFAT-luc (BPS Bioscience #60621) or Jurkat/IL2-Luc reporter (BPS Bioscience #60481) cell lines in the presence of CD19+ Raji cells. |
| **Concentration:** | 0.38 mg/ml |
| **Species:** | Human |
| **Formulated In:** | 8 mM phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol |
| **Expression System:** | HEK293 |
| **Format:** | Aqueous buffer solution |
| **Stability:** | At least 12 months at -80°C. Avoid freeze/thaw cycles. |
| **Storage:** | -80°C |
| **MW:** | 54 kDa + glycans |
| **Glycosylation:** | This molecule runs at a higher MW by SDS-PAGE due to glycosylation. |
| **Purity:** | ≥90% |
| **Purification:** | Ni-NTA affinity purification of the His-tag protein from HEK293 cells. |
| **Assay Conditions:** | Functional activity of anti-CD19-anti-CD3 bispecific molecule was measured using Jurkat effector cells with endogenous TCR/CD3 and transfected reporter NFAT-Luc or IL-2 promoter-Luc and incubated with increasing concentrations of a CD19xCD3 bispecific molecule, in the presence or absence of CD19+ Raji cells. The bispecific molecule (BiTE®) simultaneously then binds to TCR/CD3 on the Jurkat reporter cells and tumor antigen CD19 on the target Raji cells. Finally, the bispecific molecule binding stimulates NFAT or IL-2 luciferase activity. |
| **Applications:** | Anti-CD19-Anti-CD3-His-Tag can be used as a reference BiTE® for studying CD19+ cancer cell-mediated T cell activation, using either primary T cells or reporter cell lines such as the NFAT Jurkat Luciferase Cell Line. |

## Quality Control Data

4-20% SDS-PAGE Coomassie Staining



NFAT Jurkat: Activation of Jurkat Reporter by CD19xCD3 Molecule in Presence of CD19$^{+}$ Raji Cells




IL-2 Jurkat: Activation of Jurkat Reporter by CD19xCD3 Molecule in Presence of CD19+ Raji Cells