

Alemtuzumab Biosimilar - Research Grade

Bulk Alemtuzumab Biosimilar - Research Grade

Product Specific Citations:

Gravina et al. Protection of cell therapeutics from antibody-mediated killing by CD64 overexpression. *Nature Biotechnology* (2023).

Gravina et al. Synthetic immune checkpoint engagers protect HLA-deficient iPSCs and derivatives from innate immune cell cytotoxicity. *Cell Stem Cell* 30, 1538–1548

Iadonato et al. A highly potent anti-VISTA antibody KVA12123 - a new immune checkpoint inhibitor and a promising therapy against poorly immunogenic tumors. *Front Immunol.* 2023; 14: 1311658.

Product Benefits:

ichorbio's Alemtuzumab Biosimilar - Research Grade is manufactured in a cGMP compliant facility. Our alemtuzumab biosimilar is for research use only (RUO).

Size:

ichorbio's research grade alemtuzumab biosimilar is available in the following sizes: 5mg, 10mg, 20mg, 50mg, 100mg ichorbio regularly manufactures bulk multi-gram amounts of our alemtuzumab biosimilar - please contact us for pricing.

Target:

CD52

Clone:

n/a

Isotype:

IgG1 kappa

Other Names:

Campath-1 antigen, Cambridge pathology 1 antigen, HE5

Host:

Humanized

Species Reactivity:

Human

Specificity:

Detects human CD52.

Purification Method:

This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.

Background:

Alemtuzumab biosimilar is a recombinant DNA-derived humanized monoclonal antibody (Campath-1H) directed against the 21-28 kD cell surface glycoprotein, CD52, is an IgG1 kappa antibody with human variable framework and constant regions, and complementarity-determining regions from a murine (rat) monoclonal antibody. The alemtuzumab biosimilar has an approximate molecular weight of 150 kD and is produced in mammalian cell (Chinese hamster ovary) suspension culture in a medium.

Concentration:

1.0 - 5.0 mg/ml

Formulation:

Sterile, clear, colorless, preservative-free solution with a pH value of 6.8-7.4 and contains sodium chloride, disodium hydrogen phosphate, potassium chloride, potassium dihydrogen phosphate, polysorbate 80 and EDTA two sodium. BSA and Azide free.

Purity:

>95% by SDS-PAGE and HPLC

Endotoxin:

? 0.75 EU/mg as determined by the LAL method

Storage:

Alemtuzumab Biosimilar - Research Grade is stable for at least four (4) weeks when stored sterile at 2-8°C. For long term storage aseptically aliquot in working volumes without diluting and store at -80°C. Avoid Repeated Freeze Thaw Cycles.

Applications:

Functional Assays

Application Notes:



Each investigator should determine their own optimal working dilution for specific applications.

Use: ichorbio's alemtuzumab biosimilar is for research use only (RUO). **Isotype Control:**

[Bulk Human IgG1 Isotype Control \(IB1\) \[ICH2254\]](#)