

Labetuzumab Biosimilar - Ultra Low Endotoxin

Product Code: ICH5120UL

More Information

Species Reactivity: Human

Target: CEACAM5

Concentration: >1mg/ml

Isotype: Human IgG1 Kappa

product name H2: Labetuzumab Biosimilar - Ultra Low Endotoxin

Antibodies against the same target: [Tusamitamab Biosimilar - Research Grade \(ICH5040\)](#), [Altumomab Biosimilar - Research Grade \(ICH5340\)](#), [Arcitumomab Biosimilar - Research Grade \(ICH5354\)](#), [Labetuzumab Govitecan Biosimilar - Research Grade \(ICH5617G\)](#), [Precentabart Biosimilar - Research Grade \(ICH5787\)](#)

Sequence: <https://www.imgt.org/mAb-DB/>

Buffer: ICH3002

UniProt: P06731

Shipping Conditions: Blue ice

background: This product is a research-grade, unconjugated recombinant analog of labetuzumab, an anti-CEACAM5 (CEA / CD66e) humanized IgG1 kappa antibody. It is supplied strictly for research use only and is not the clinical therapeutic; it is not intended for human or veterinary use. As a non-therapeutic biosimilar built around the CEACAM5 target, it reproduces the antigen-binding specificity of the originator molecule in a format suited to laboratory work. Typical applications include use as a defined, lot-consistent binding reagent, as a positive control or benchmark antibody in assay development, and as a building block for antibody-drug conjugate (ADC) and immunoconjugate development

programs where a well-characterized anti-CEA arm is needed. It is offered as a full-length human IgG1 kappa molecule, enabling Fc-dependent readouts such as ADCC in vitro. Material is available at low-endotoxin research grade (1 EU/mg), with ultra-low-endotoxin (0.5 EU/mg) and bulk milligram-to-gram quantities suitable for preclinical and in-vitro standards, screening, and reagent-scale workflows. This guidance is provided for ichorbio to review. CEACAM5 (carcinoembryonic antigen-related cell adhesion molecule 5), historically known as CEA and clustered as CD66e, is a heavily glycosylated, GPI-anchored member of the immunoglobulin superfamily and the CEA family. Its extracellular region comprises seven immunoglobulin-like domains: an N-terminal IgV-like domain followed by six IgC2-like domains. CEACAM5 mediates homotypic and heterotypic cell-cell adhesion and modulates cell fate through effects on differentiation, apoptosis (including anoikis resistance), and cell polarity. It is normally expressed on the apical surface of gastrointestinal epithelium but is markedly overexpressed and often mislocalized in many epithelial carcinomas, including colorectal, gastric, pancreatic, and lung adenocarcinomas. Shed soluble CEA in serum is a widely used tumor biomarker. This tumor-associated, surface-accessible expression pattern underlies CEACAM5's use as a target for antibody-based imaging, radioimmunotherapy, and ADC approaches.

Other names: Carcinoembryonic antigen, CEA, Carcinoembryonic antigen-related cell adhesion molecule 5, CEA cell adhesion molecule 5, Meconium antigen 100, Cell adhesion molecule CEACAM5

Specificity: Detects human CEACAM5

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.

Formulation: Sterile, preservative-free, solution in PBS. BSA and Azide free.

Purity: ≥95% monomer by analytical SEC, >95% by SDS Page

Endotoxin: 0.1EU/mg Determined by LAL gel clotting assay

Storage: This biosimilar is stable when stored at 2-8°C. For longer term storage (> 3 months) it is recommended to store this antibody at -20°C or -70°C.

Applications: Functional Assays

Application Notes: This biosimilar is for research use only (RUO): it is not for diagnostic or therapeutic procedures and cannot be purchased by patients.



Use: Products are for research use only. Not for use in diagnostic or therapeutic procedures.