# C031P.05: Nimotuzumab Biosimilar, Endotoxin 0.05 EU/mg

**Catalog No.:** C031P.05 | **Product Name:** Nimotuzumab Biosimilar, Endotoxin 0.05 EU/mg

Nimotuzumab Biosimilar, Endotoxin 0.05 EU/mg. The research grade Nimotuzumab biosimilar protein is for research use only (RUO). Recombinant human IgG1 isotype controls are available. Condition of sample preparation and optimal sample dilution should be determined experimentally by the investigator.

## PRODUCT SPECIFICATIONS

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| **Catalog No.** | C031P.05 |
| **Product Name** | Nimotuzumab Biosimilar, Endotoxin 0.05 EU/mg |
| **Supplier Name** | Syd Labs, Inc. |
| **Brand Name** | Syd Labs |
| **Synonyms** | epidermal growth factor receptor, EGF receptor |
| **Summary** | Recombinant Humanized IgG1 Monoclonal Antibody. |
| **Isotype** | Human IgG1 kappa. |
| **Source/Host** | The anti-human EGFR monoclonal antibody nimotuzumab biosimilar was produced in mammalian cells. |
| **Specificity/Sensitivity** | The research grade nimotuzumab biosimilar specifically binds to the human epidermal growth factor receptor (EGFR). |
| **Applications** | ELISA, neutralization, functional assays such as bioanalytical PK and ADA assays, and those assays for studying biological pathways affected by nimotuzumab. |
| **Form Of Antibody** | 0.2 μM filtered solution, pH 7.4, no stabilizers or preservatives. |
| **Endotoxin** | < 0.05 EU per 1 mg of the protein by the LAL method. |
| **Purity** | >95% by SDS-PAGE under reducing conditions and HPLC. |
| **Shipping** | The Nimotuzumab Biosimilar, Endotoxin 0.05 EU/mg is shipped with ice pack. Upon receipt, store it immediately at the temperature recommended below. |
| **Stability & Storage** | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month from date of receipt, 2 to 8°C as supplied. |
| **Note** | The research grade Nimotuzumab biosimilar protein is for research use only (RUO). Recombinant human IgG1 isotype controls are available. Condition of sample preparation and optimal sample dilution should be determined experimentally by the investigator. |

## REFERENCES & BACKGROUND

What is Nimotuzumab biosimilar research grade? Nimotuzumab Biosimilar uses the same protein sequences as the therapeutic antibody nimotuzumab. Like cetuximab, nimotuzumab is a humanized monoclonal antibody that binds to the epidermal growth factor receptor (EGFR), a signalling protein that normally controls cell division. In some cancers, this receptor is altered to cause uncontrolled cell division, a hallmark of cancer. These monoclonal antibodies block EGFR and stop the uncontrolled cell division. It has a humanized human-mouse h-R3 heavy chain and a humanized human-mouse h-R3 κ-chain. Nimotuzumab binds with optimal affinity and high specificity to the extracellular region of EGFR (epidermal growth factor receptor). This results in a blockade of ligand binding and receptor activation. Epidermal growth factor receptor (EGFR) is a key target in the development of cancer therapeutics. EGFR-targeting drugs have been shown to improve response when used with conventional treatments such as radiation therapy and chemotherapy. This low-endotoxin grade (<0.05 EU/mg) is suitable for sensitive in vivo and functional assays.