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Human EGFR Monoclonal Antibody

Catalog No.: YR0097

Basic Information

Molecular Weight
150 kDa

Endotoxin
<1EU/mg (<0.001EU/μg)Determined by LAL gel clotting assay

Sterility
0.2 μm filtration

Aggregation
<5% Determined by SECP

Purity
>95% Determined by SDS-PAGE

Background

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.

Reported Applications

ELISA,neutralization,functional assays such as bioanalytical P K and ADA assays,and those assays for studying biological pathways

Immunogen Information

Clone
Nimotuzumab Biosimilar

Isotype
Human IgG1 kappa

Immunogen
Human EGFR

RecommendedIsotype Control(s)
In Vivo Grade Recombinant Human IgG1 Kappa Isotype Control Antibody

Recommended Dilution Buffer
1×PBS pH 7.4

Contact

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Product Information

Production
Purified from cell culture supernatant in an animal-free facility

Purification
Protein A or G purification

Storage
Store at -20℃