

Aflibercept Biosimilar

Catalog No.: YR0066

Basic Information

Molecular Weight

115 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

What is research grade Aflibercept biosimilar? Research grade Aflibercept biosimilar has the same amino acid sequence as Aflibercept (trade name Eylea), a recombinant protein composed of the binding domains of two human vascular endothelial growth factor (VEGF) receptors fused with the Fc region of human immunoglobulin gamma 1 (IgG1). It inhibits vascular endothelial growth factor (VEGF), and is used in the treatment of macular edema following Central Retinal Vein Occlusion (CRVO) and neovascular Age-Related Macular Degeneration (AMD). Aflibercept is a dimeric glycoprotein with a molecular weight of 96.9 kilo Daltons (kDa). Glycosylation adds its molecular weight to 115 kDa in total. Ziv-aflibercept (trade name Zaltrap) was developed as an injection for treatment of metastatic colorectal cancer.

Reported Applications

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

Immunogen Information

Clone

Aflibercept

Isotype

Human IgG1 Fc

Immunogen

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Recommended Isotype Control(s)

In Vivo Grade Recombinant Human IgG1 Fc Protein

Recommended Dilution Buffer

1×PBS pH 7.0

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

2 - 8°C for up to 4 weeks and -80°C for long term storage (Avoid repeated freezing and thawing)