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Human VEGF Monoclonal Antibody Fragment (Fab)

Catalog No.: YR0040

Basic Information

Molecular Weight
48 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

The humanized anti-VEGF-A monoclonal antibody drug Bevacizumab (trade name Avastin, Genentech/Roche) is the first clinically available angiogenesis inhibitor in the United States. The humanized anti-VEGF-A monoclonal antibody fragment (Fab) Ranibizumab (trade name Lucentis, Genentech) is derived from the same parent mouse antibody as bevacizumab. Both antibody drugs produce angiogenesis inhibition and slow the growth of new blood vessels. Ranibizumab is much smaller than the parent complete antibody but shows stronger binding to VEGF-A after affinity maturation. Ranibizumab can also be used to treat the "wet" type of age-related macular degeneration (AMD, also ARMD), a common form of age-related vision loss.Vascular endothelial growth factor A (VEGF-A) stimulates angiogenesis in a variety of cancers, including colorectal, lung, breast, glioblastoma, kidney, and ovarian cancers.

Reported Applications

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

Immunogen Information

Clone
Ranibizumab Biosimilar

Isotype

Immunogen
Recombinant human VEGF

RecommendedIsotype Control(s)

Recommended Dilution Buffer
1×PBS pH 5.3

Contact

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Product Information

Production
The research grade Fab protein ranibizumab was produced in the ranibizumab biosimilar E.coli cell line.

Purification
Protein A or G purification

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