

# Human PTK7 Monoclonal Antibody

Catalog No.: YR0160

## 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

What is cofetuzumab biosimilar research grade? Cofetuzumab is a humanized IgG1-kappa monoclonal antibody against PTK7, which is a tumor-associated antigen (TAA) and overexpressed on a variety of cancer cells. Cofetuzumab pelidotin is an antibody-drug conjugate (ADC) composed of cofetuzumab linked, via a cleavable valine-citrulline linker, to an analog of the auristatin microtubule inhibitor dolastatin 10, auristatin-0101, with potential antineoplastic activity. Upon administration, cofetuzumab pelidotin targets and binds to PTK7 expressed on tumor cells. Upon binding, internalization and cleavage, auristatin-0101 binds to tubulin and inhibits its polymerization, resulting in G2/M phase arrest and apoptosis of PTK7-expressing tumor cells. Cofetuzumab biosimilar uses the same protein sequences as the therapeutic antibody cofetuzumab.

## Reported Applications

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

## Immunogen Information

### Clone

Cofetuzumab Biosimilar

### Isotype

Human IgG1 kappa

### Immunogen

Human PTK7

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