For Research Use Only

Recombinant Human ALK protein (rFc Tag)

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Catalog Number: Eg3796

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Human ALK protein Val19-Ser1038 (Accession# Q9UM73) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
238

Accession:
Q9UM73

Predicted Molecular Mass:
136.6 kDa

SDS-PAGE:
125-135 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

ALK, also named as CD246, is a receptor tyrosine kinase (RTK) that belongs to the protein kinase superfamily. ALK is usually found in the nervous system and appears to play an important role in the normal development and function of the nervous system. ALK was originally identified as part of the NPM (Nucleophosmin)-ALK oncogenic fusion protein, resulting from the (2;5)(p23;q35) translocation that is frequently associated with anaplastic large-cell lymphoma (ALCL). The EML4 (echinoderm microtubule-associated protein-like 4)-ALK fusion protein have been described in non-small-cell lung cancer (NSCLC), this transforming fusion kinase is a promising candidate for a therapeutic target as well as for a diagnostic molecular marker in NSCLC. The expression of anaplastic lymphoma kinase (ALK, CD246) has been documented in most uIMTs.

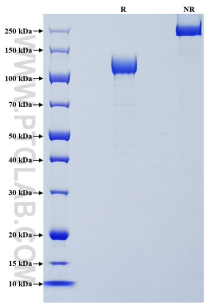
References

1. Soda M.et al. (2007). Nature. 448(7153):561-6.
2. Parra-Herran C. (2021). Int J Gynecol Pathol. 40(1):28-31.

Synonyms

ALK tyrosine kinase receptor, Anaplastic lymphoma kinase, CD246, EC:2.7.10.1

Selected Validation Data



Purity of Recombinant Human ALK was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.