

BioActive Human ALK (F1174L) Recombinant Protein, Fc Tag

Catalog Number:SGRP00635

DESCRIPTION	
Product Name	BioActive Human ALK (F1174L) Recombinant Protein, Fc Tag
Gene Name	ALK
Source	Full length Human ALK fusion, expressed in HEK293 cells.
Alternative names	
SPECIFICATIONS	
Biological Activity	Fully biologically active
Purity	> 95% by SDS-PAGE & HPLC
Endotoxin Level	< 1.0 EU per µg protein as determined by the LAL method
Expression System	HEK293 Cells
Format	Recombinant
Species	Human
Predicted MW	
Actual MW	
Applications	Sandwich ELISA Functional Studies Mass Spectrometry SDS-PAGE HPLC
Form	Lyophilized from sterile PBS, pH 7.18
Concentration	N/A
Stability and Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	Reconstitute with Phosphate Buffered Saline.
BACKGROUND	
Gene Accession	Q9UM73
Gene Alias	Protein names Recommended name ALK tyrosine kinase receptor Curated EC number EC:2.7.10.1 2 Publications (UniProtKB ENZYME Rhea) Alternative names Anaplastic lymphoma kinase 1 Publication CD Antigen Name CD246 Gene names Name ALK

29907598), and has been demonstrated to occur as a secondary resistance mutation in the context of ALK fusions (PMID: 21030459, PMID: 31452835).

Background

ALK F1174L is present in 0.06% of AACR GENIE cases, with neuroblastoma, lung adenocarcinoma, ganglioneuroblastoma, and poorly differentiated non-small cell lung cancer having the greatest prevalence. ALK F1174L lies within the protein kinase domain of the Alk protein (UniProt.org). F1174L confers a gain of function to the Alk protein as indicated by transformation activity and increased cell proliferation in culture (PMID: 18923525, PMID: 29533785, PMID: