

Active Recombinant Human ALK, GST-His Tag

Cat. No. ALK-92H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ALK wt, internal fragment, amino acids L1066-S1437 (as in NCBI/Protein entry NP_004295.2), N-terminal GST-HIS6 fusion protein with a 3C cleavage site, expressed in Sf9 insect cells
Species	Human
Source	Sf9 Cells
ProteinLength	1066-1437 a.a.
Description	This gene encodes a receptor tyrosine kinase, which belongs to the insulin receptor superfamily. This protein comprises an extracellular domain, an hydrophobic stretch corresponding to a single pass transmembrane region, and an intracellular kinase domain. It plays an important role in the development of the brain and exerts its effects on specific neurons in the nervous system. This gene has been found to be rearranged, mutated, or amplified in a series of tumours including anaplastic large cell lymphomas, neuroblastoma, and non-small cell lung cancer.
Bio-activity	Specific activity: 93 pmol/μg×min
Molecular Mass	70,459 Da
AA Sequence	MSPILGYWKI KGLVQPTRLL LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH

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PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIQID KYLKSSKYIA
WPLQGWQATF GGGDHPPKSD PMGHHHHHHG RDSLEVLFGG PLAMVLQAMQ
MELQSPEYKL SKLRTSTIMT DYNPNYCFAG KTSSISDLKE VPRKNITLIR
GLGHGAFGEV YEGQVSGMPN DPSPLQVAVK TLPEVCSEQD ELDLMEALI
ISKFNHQNIV RCIGVSLQSL PRFILLELMA GGDLSFLRE TRPRPSQPSS
LAMLDLLHVA RDIACGCQYL EENHFIHRDI AARNCLLTCP GPGRVAKIGD
FGMARDIYRA SYRKGGCAML LPVKWMPPEA FMEGIFTSKT DTWSFGVLLW
EIFSLGYMPY PSKSNQEVLE FVTSGGRMDP PKNCPGPVYR IMTQCWQHQP
EDRPNFMAIL ERIEYCTQDP DVINTALPIE YGPLVEEEEK VPVRPKDPEG
VPPLLVSQQA KREEERS

Storage	-80°C. Avoid repeated freeze-thaw cycles!
Concentration	0.301 g/μl (Bradford method using BSA as standard protein)
Storage Buffer	50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 15 mM reduced glutathione, 20% glycerol

GENE INFORMATION

Gene Name	ALK anaplastic lymphoma receptor tyrosine kinase [Homo sapiens (human)]
Official Symbol	ALK
Synonyms	ALK; CD246; NBLST3; anaplastic lymphoma receptor tyrosine kinase; ALK tyrosine kinase receptor; CD246 antigen; mutant anaplastic lymphoma kinase; NP_004295.2; EC 2.7.10.1
Gene ID	238
mRNA Refseq	NM_004304

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Protein Refseq	NP_004295
MIM	105590
UniProt ID	Q9UM73
Chromosome Location	2p23
Pathway	Non-small cell lung cancer
Function	ATP binding; NF-kappaB-inducing kinase activity; protein binding

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