

## Active Recombinant Human ALK, GST-His Tag

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

### SPECIFICATION

<b>Product Overview</b>	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
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	1066-1437 a.a.
<b>Description</b>	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.
<b>Bio-activity</b>	Specific activity: 93 pmol/μg×min
<b>Molecular Mass</b>	70,459 Da
<b>AA Sequence</b>	MSPILGYWKI KGLVQPTRL LLEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYADKHN 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 ELDFLMEALI  
 ISKFNHQNIV RCIGVSLQSL PRFILLELMA GGDLKSFLRE TRPRPSQPSS  
 LAMDLLHVA RDIACGCQYL EENHFIHRDI AARNCLLTCP GPGRVAKIGD  
 FGMARDIYRA SYRKGGCAM LPVKWMPPEA FMEGIFTSKT DTWSFGVLLW  
 EIFSLGYMPY PSKSNQEVLE FVTSGGRMDP PKNCPGPVYR IMTQCWQHQP  
 EDRPNFAIL ERIEYCTQDP DVINTALPIE YGPLVEEEEK VPVRPKDPEG  
 VPPLLVSQQA KREEERS

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

## GENE INFORMATION

<b>Gene Name</b>	ALK anaplastic lymphoma receptor tyrosine kinase [ Homo sapiens (human) ]
<b>Official Symbol</b>	ALK
<b>Synonyms</b>	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
<b>Gene ID</b>	238
<b>mRNA Refseq</b>	NM_004304

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

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