

Produktinformation



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Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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ALK (G1269S), GST-Tag Recombinant

Product Information

	acids 1060-end with a G1269S mutation. This construct contains an N-terminal GST-tag.
	The recombinant protein was affinity purified and is active.
Background:	ALK (anasplatic lymphoma kinase), also known as ALK tyrosine kinase receptor or CD246 (cluster of differentiation 246), is a receptor tyrosine kinase involved in signal transduction. In the presence of a ligand ALK dimerizes and a conformational change result in autoactivation of the kinase domain. Activated AKL will phosphorylate other AKL receptors and activate downstream signaling pathways. ALK is present in the nervous system during development, where it participates in retinal axon growth and targeting, synapse development, sleep, learning and long-term memory. Interestingly, dysfunction of ALK in one of three possible ways can lead to cancer: fusion with another gene, gene duplication or gene mutations. ALK, as its name indicates, has been linked to anaplastic large-cell lymphoma, but also non-small-cell lung cancer (NSCLC), neuroblastoma, breast cancer, renal carcinoma and others. Inhibitors of ALK show great therapeutical potential, two of them being already commercially available for the treatment of late-stage lung cancer and NSCLC. Further studies into ALK will deepen our understanding of its functions, find new inhibitors and new therapeutic avenues for patients with AKL-linked cancer.
Species:	Human
Construct:	ALK (G1269S) (GST-1060-end)
Mutation:	G1269S
Concentration:	0.10 mg/ml
Expression System:	Sf9
Purity:	70% (Purity calculation does not include co-purifying Glutathione-binding proteins.)
Format:	Aqueous buffer solution.
Formulated In:	50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM Glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol
MW:	90 kDa
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	opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Assay Conditions:	(KKKSPGEYVNIEFG) diluted in distilled water to a working concentration of 1 mg/ml, in a [33P]-ATP based assay. Reaction was initiated by mixing increasing amounts of ALK (G1269S) with 1250 pmoles of [33P]-ATP in 5 mM MOPS, pH 7.2, 2.5 mM β -glycerol- phosphate, 5 mM MgCl ₂ , 2.5 mM MnCl ₂ , 0.4 mM EDTA, 50 ng/µl BSA prepared with 50 µM DTT, 50 µM ATP and substrate at a final concentration of 200 µg/ml. The reaction was initiated by addition of [33P]-ATP Assay Cocktail, followed by a 15- minute incubation at 30°C. The reaction was terminated by spotting the reaction mixture on phosphocellulose P81 paper, air-dry and three 10-minute washes with 1% phosphoric acid solution. Radioactivity was measured in a scintillation counter. The corrected activity (RLU) was calculated by removing the blank value for each sample. The Kinase Specific Activity was calculated as follows: RLU / [(specific activity of [33P]-
Genbank Accession: Stability: Storage: Instructions for Use: Specific Activity: Assay Conditions:	NM_004304 At least 6 months at -80°C. -80°C Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin beropening. Aliquot into small volumes and flash freeze for long term storage. As multiple freeze/thaw cycles. 27 pmol/min/µg ALK (G1269S) activity was measured by using the IGF1Rtide synthetic pep (KKKSPGEYVNIEFG) diluted in distilled water to a working concentration of 1 mg/m a [33P]-ATP based assay. Reaction was initiated by mixing increasing amounts of (G1269S) with 1250 pmoles of [33P]-ATP in 5 mM MOPS, pH 7.2, 2.5 mM β-glyce phosphate, 5 mM MgCl ₂ , 2.5 mM MnCl ₂ , 0.4 mM EDTA, 50 ng/µl BSA prepared with µM DTT, 50 µM ATP and substrate at a final concentration of 200 µg/ml. The reaction was initiated by addition of [33P]-ATP Assay Cocktail, followed by a minute incubation at 30°C. The reaction was terminated by spotting the reac mixture on phosphocellulose P81 paper, air-dry and three 10-minute washes with phosphoric acid solution. Radioactivity was measured in a scintillation counter. corrected activity (RLU) was calculated by removing the blank value for each same



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Volume) / (Spot Volume)]. The blank was determined from a "no substrate" sample by replacing the substrate solution with an equal volume of distilled water. Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

Applications:

Quality Control Data

