

Certificate of Analysis

AXL, 10 µg

Recombinant human AXL expressed in insect cells

ThermoFisher
SCIENTIFIC

Part Number: A31515

Lot Number: 2140956

Immediate Storage: -80°C

Shipping Conditions: dry ice

5781 Van Allen Way

Carlsbad, CA 92008

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Description:

Recombinant human AXL (473-end) was expressed in insect cells using a N-terminal HIS tag.

AXL is a member of the receptor tyrosine kinase family which has oncogenic potential and is implicated in human myeloid leukemia. AXL is a member of a complex signaling network that is involved in the control of cell proliferation and differentiation. Overexpression of AXL cDNA in NIH 3T3 cells induces neoplastic transformation of these cells with the concomitant appearance of a 140kDa AXL tyrosine-phosphorylated protein. Expression of AXL cDNA in the baculovirus system results in the expression of the appropriate recombinant protein that is recognized by antiphosphotyrosine antibodies, confirming that the AXL protein is tyrosine phosphorylated.

Accession Number:

The gene accession number for AXL is NP_068713.2.

Specific Activity:

94 nmoles of phosphate transferred to AXLtide peptide substrate (KKS RGDYMTMQIG) per minute per mg of total protein at 30°C.

Concentration:

0.1 mg/mL as determined by densitometry of the kinase gel band(s).

Calculated **2,070 nM**.

Aliases:

UFO, JTK11

Storage and Handling:

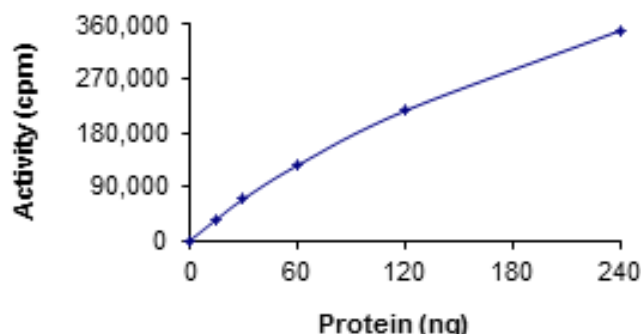
For maximum recovery please spin prior to use. Unless noted below, aliquots of the 5 ug, 10ug and 20ug sizes of kinase are not recommended as materials can be used in original packaging until exhausted. For larger sizes, the number of freeze/thaws may be reduced by preparing aliquots, aliquots below 20 µL are not recommended. **Please never store a kinase diluted.** If properly stored at -80°C, this product is guaranteed for 6 months from date of purchase.

Storage Buffer:

50 mM Sodium Phosphate (pH 7.0), 300 mM NaCl, 150 mM Imidazole, 0.1 mM PMSF, 0.2 mM DTT and 25% Glycerol.

QUALITY ASSURANCE

AXL Activity Graph



Dilution Buffer:

5 mM MOPS (pH 7.2), 2.5 mM β-glycerol-phosphate, 5 mM MgCl₂, 1 mM EGTA, 0.4 mM EDTA, 0.05mM DTT and 50 ng/µL BSA.

Assay Conditions:

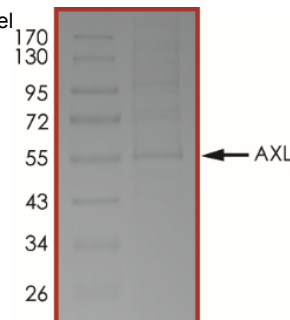
AXL was pre-diluted in enzyme dilution buffer and assayed in 5 mM MOPS (pH 7.2), 2.5 mM β-glycerol-phosphate, 5 mM MgCl₂, 0.4 mM EDTA, 1 mM EGTA, 0.05 mM DTT, with 50 µM ATP, trace [³³P]-γ-ATP and for 15 minutes at 30°C.

Gel Information for AXL

Page Description: Run on an SDS-PAGE gel and stained with Coomassie®.

Lane 1: Molecular Weight markers as labeled.

Lane 2: AXL



Purity:

> 70%

Molecular Weight:

48.3 kDa.

Protein sequence alignment with reference sequence(s)

GenBank Accession Number: NP_068713.2

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1 MHHHHHSHRRKKETRYGEVFEPTVERGELVVRVYRVRKSYSRRTTEATLNSLGISEELKEKLRDVMVDRHKVALGKTLGEGEFGAVMEGQLNQDDSIK AXL Life
473 -----RRKKETRYGEVFEPTVERGELVVRVYRVRKSYSRRTTEATLNSLGISEELKEKLRDVMVDRHKVALGKTLGEGEFGAVMEGQLNQDDSIK NP_068713.2

101 VAVKTMKIAICTRSELEDFLSEAVCMKEFDHPNVMRLIGVCFQGSERESFPAPVVILPFMKHGDLSFLLYSRLGDQPVYLPQMLVKFMADIASGMEYL
573 VAVKTMKIAICTRSELEDFLSEAVCMKEFDHPNVMRLIGVCFQGSERESFPAPVVILPFMKHGDLSFLLYSRLGDQPVYLPQMLVKFMADIASGMEYL

201 STKRFIHRDLAARNCLNENMSVCVADFGLSKKIYNGDYRQGRGRIAKMPVKWIAIESLADRVYTSKSDVWSFGVTMWEIATRGQTPYPGVENSEIYDYL
673 STKRFIHRDLAARNCLNENMSVCVADFGLSKKIYNGDYRQGRGRIAKMPVKWIAIESLADRVYTSKSDVWSFGVTMWEIATRGQTPYPGVENSEIYDYL

301 QGNRLKQPADCLDGLYALMSRCWELNPQDRPSFTELREDLENTLKALPPAQEPDEILYVNMDEGGGYEPPGAAGGADPPTQDPKDSCLTAAEVHPA
773 QGNRLKQPADCLDGLYALMSRCWELNPQDRPSFTELREDLENTLKALPPAQEPDEILYVNMDEGGGYEPPGAAGGADPPTQDPKDSCLTAAEVHPA

401 GRYVLCPSSTTPSPAQPADRGSPAAPGQEDGA
873 GRYVLCPSSTTPSPAQPADRGSPAAPGQEDGA
    
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* highlighted residues denote differences from the reference protein sequence(s).



Anita Targosz, Associate Director

Date: 08/May/2017

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