

Human Axl Kinase Protein (His Tag)

Catalog Number: 10279-H08H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

AXL, JTK11, UFO

Protein Construction:

A DNA sequence encoding the extracellular domain of human AXL isoform 1 (NP_068713.2) extracellular domain (Met 1-Pro 449) was fused with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 98 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Glu 33

Molecular Mass:

The secreted recombinant human AXL consists of 428 amino acids after removal of the signal peptide and predicts a molecular mass of 46.5 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 60-70 kDa band due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

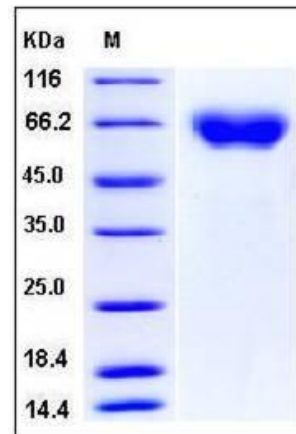
Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

AXL receptor tyrosine kinase, also known as AXL, is a member of the receptor tyrosine kinase (RTKs) subfamily characterized by two Ig-like motifs and two fibronectin type III motifs in the extracellular domains. This characteristic topology is also found in neural cell adhesion molecules and in receptor tyrosine phosphatases. This receptor can mediate cell aggregation by homophilic binding. AXL is also involved in signal transduction from the extracellular matrix into the cytoplasm by binding growth factors, and thus implicated in the stimulation of cell proliferation.. The AXL gene is a chronic myelogenous leukemia-associated oncogene and associated with colon cancer and melanoma. The mouse AXL cDNA encodes an 888 aa precursor that includes an 18 aa signal sequence, a 427 aa extracellular domain, a 21 aa transmembrane segment, and a 422 aa cytoplasmic domain. The extracellular domains of mouse and human Axl share 81% aa sequence identity.

References

1. Nagata, K. et al., 1996, J. Biol. Chem. 22: 30022-7.
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4. Strausberg, R.L. et al., 2003, Proc. Natl. Acad. Sci. USA. 99 (26): 16899-903.
5. Yanagita, M., 2004, Curr. Opin. Nephrol. Hypertens. 13: 465-70.
6. Holland, S. et al., 2005, Canc. Res. 65: 9294-303.

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Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>