

AXL, Human, Recombinant (aa 473-894, His)

General Information

Protein Construction:	Recombinant human AXL (473-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag.
Species:	Human
Expression Host:	Baculovirus-Insect Cells
Accession:	P30530
Molecular Weight:	~55 kDa

QC Testing

Representative specific activity data for AXL were obtained using different assay formats:

Biological Activity:	- 94 nmol/min/mg, determined by radioactive kinase assay - 18 nmol/min/mg, determined by ADP-Glo kinase assay, corresponding to 88 nmol/min/mg in the radioactive kinase assay
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Different lots may be tested using different assay methods; therefore, values obtained using different assay formats are not directly comparable.

Purity: >70% as determined by SDS-PAGE.

Formulation: Supplied as sterile 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25% glycerol.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Enzymes are highly recommended to be shipped at frozen temperature with dry ice. Shipment made at ambient temperature may seriously affect the activity of the ordered products.

Protein Background

Axl receptor tyrosine kinase, together with Tyro3 and Mer, constitute the TAM family of receptor tyrosine kinases. In the nervous system, Axl and its ligand Growth-arrest-specific protein 6 (Gas6) are expressed on multiple cell types. Axl functions in dampening the immune response, regulating cytokine secretion, clearing apoptotic cells and debris, and maintaining cell survival. Axl is upregulated in various disease states, such as in the cuprizone toxicity-induced model of demyelination and in multiple sclerosis (MS) lesions, suggesting that it plays a role in disease pathogenesis. Axl expression correlates with poor prognosis in several cancers. Axl mediates multiple oncogenic phenotypes and activation of these RTKs constitutes a mechanism of chemoresistance in a variety of solid tumors.

A DRUG SCREENING EXPERT

Axl contributes to cell survival, migration, invasion, metastasis and chemosensitivity justify further investigation of Axl as novel therapeutic targets in cancer. The receptor tyrosine kinase AXL is thought to play a role in metastasis. The soluble AXL receptor as a therapeutic candidate agent for treatment of metastatic ovarian cancer. GAS6/AXL targeting as an effective strategy for inhibition of metastatic tumor progression in vivo.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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