

AXL Protein, Human, Recombinant (mFc)

General Information

Synonyms:	UFO;JTK11;ARK;Tyro7;AXL receptor tyrosine kinase
Protein Construction:	A DNA sequence encoding the human AXL (AAH32229.1) (Met1-Pro449) was expressed with the Fc region of mouse IgG1 at the C-terminus. Predicted N terminal: Ala 26
Species:	Human
Expression Host:	HEK293 Cells
Accession:	AAH32229.1
Molecular Weight:	72.11 kDa (predicted); 86.3 kDa (reducing conditions)

QC Testing

Biological Activity:	1.Recombinant Human AXL Protein, mFc Tag (Cat#TMPY-06478) captured on CM5 chip via Anti-Mouse antibody can bind Recombinant Human GAS6 Protein, His Tag with an affinity constant of 4.277 nM as determined in an SPR assay (Biacore T200) (Routinely tested).2. Recombinant Human AXL Protein, mFc Tag (Cat#TMPY-06478) captured on CM5 via Anti-mouse antibody chip can bind Recombinant Human GAS6 Protein, His Tag with an affinity constant of 6.895 nM as determined in an SPR assay (Biacore T200) (Routinely tested).
Purity:	> 90 % as determined by SDS-PAGE. ≥ 90 % as determined by SEC-HPLC.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

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. 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.

Reference

- Weinger JG, et al. (2011) Loss of the receptor tyrosine kinase Axl leads to enhanced inflammation in the CNS and delayed removal of myelin debris during Experimental Autoimmune Encephalomyelitis. *J Neuroinflammation*. 8: 49.
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- Cavet ME, et al. (2010) Gas6-Axl pathway: the role of redox-dependent association of Axl with nonmuscle myosin IIB. *Hypertension*. 56(1): 105-11.
- Rankin EB, et al. (2010) AXL is an essential factor and therapeutic target for metastatic ovarian cancer. *Cancer Res*. 70(19): 7570-9.

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