

# Recombinant Human AIM2 Protein (GST Tag)

Catalog Number:PKSH031042



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

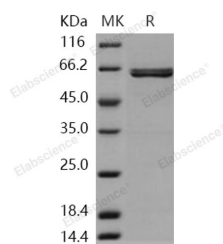
## Description

<b>Synonyms</b>	PYHIN4
<b>Species</b>	Human
<b>Expression Host</b>	Baculovirus-Insect Cells
<b>Sequence</b>	Met 1-Thr 343
<b>Accession</b>	NP_004824.1
<b>Calculated Molecular Weight</b>	65.2 kDa
<b>Observed molecular weight</b>	65.2 kDa
<b>Tag</b>	N-GST
<b>Bioactivity</b>	Measured by its ability to inhibit the proliferation of MCF7 human breast adenocarcinoma cells. The ED50 for this effect is typically 10-40ug/ml.

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile 50mM Tris, 1M NaCl, 0.5mM PMSF, 5mM GSH, pH 8.0 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

AIM2, Absent In Melanoma 2 is a member of the interferon-inducible HIN-200 protein family that contains an amino-terminal pyrin domain and a carboxy-terminal oligonucleotide/oligosaccharide-binding domain, senses cytoplasmic DNA by means of its oligonucleotide/oligosaccharide-binding domain and interacts with ASC (apoptosis-associated speck-like protein containing a CARD) through its pyrin domain to activate caspase-1. In response to foreign cytoplasmic DNA, AIM2 forms an inflammasome, resulting in caspase activation in inflammatory cells. It had been pointed to a role of AIM2 function in both inflammation and cancer. AIM-2 antigen is expressed in a wide variety of tumor types, including

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neuroectodermal tumors, as well as breast, ovarian and colon carcinomas. AIM-2 could be used as a tumor antigen target for monitoring vaccine trials or to develop antigen specific active immunotherapy for glioma patients.

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