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Datasheet for ABIN2723258  
**IDO1 Protein (Myc-DYKDDDDK Tag)**

2 Images

Overview

Quantity:	20 µg
Target:	IDO1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IDO1 protein is labelled with Myc-DYKDDDDK Tag.
Application:	Antibody Production (AbP), Functional Studies (Func), Protein Interaction (PI), Standard (STD)

Product Details

Specificity:	Optimal preservation of protein structure, post-translational modifications and functions.
Characteristics:	<ul style="list-style-type: none"> <li>• Recombinant human IDO1 / INDO protein expressed in HEK293 cells.</li> <li>• Produced with end-sequenced ORF clone</li> <li>• Tested for bioactivity.</li> </ul>
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining
Biological Activity Comment:	The specific activity of IDO1 was determined by monitoring kynurenine formation from N-formylkynurenine based on the absorbance at 492nm. The N-formylkynurenine was produced from a conversion of tryptophan with IDO1. The reaction was carried out at 25°C for 15min in the buffer containing 100mM PBS, pH6.5, 40mM ascorbic acid, 450 units catalase, 20µM methylene blue, and 800µM L-tryptophan as the substrate. The reaction was terminated by adding 50ul of 30% (w/v) trichloroacetic acid. The sample was further incubated for 30min at

## Product Details

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60°C and centrifuged at 12000 rpm for 15 min. The supernatant was used to mix with an equal volume of Ehrlich's reagent (2% p-dimethylaminobenzaldehyde in glacial acetic acid) to measure the absorbance at 492 nm after 10min incubation.

## Target Details

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Target:	IDO1
Alternative Name:	Ido1,indo ( <a href="#">IDO1 Products</a> )
Background:	This gene encodes indoleamine 2,3-dioxygenase (IDO) - a heme enzyme that catalyzes the first and rate-limiting step in tryptophan catabolism to N-formyl-kynurenine. This enzyme acts on multiple tryptophan substrates including D-tryptophan, L-tryptophan, 5-hydroxy-tryptophan, tryptamine, and serotonin. This enzyme is thought to play a role in a variety of pathophysiological processes such as antimicrobial and antitumor defense, neuropathology, immunoregulation, and antioxidant activity. Through its expression in dendritic cells, monocytes, and macrophages this enzyme modulates T-cell behavior by its peri-cellular catabolization of the essential amino acid tryptophan.[provided by RefSeq, Feb 2011].
Molecular Weight:	45.1 kDa
NCBI Accession:	<a href="#">NP_002155</a>
Pathways:	<a href="#">Activated T Cell Proliferation</a>

## Application Details

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Application Notes:	Recombinant human proteins can be used for: Native antigens for optimized antibody production Positive controls in ELISA and other antibody assays Protein-protein interaction In vitro biochemical assays and cell-based functional assays
Comment:	The tag is located at the C-terminal.
Restrictions:	For Research Use only

## Handling

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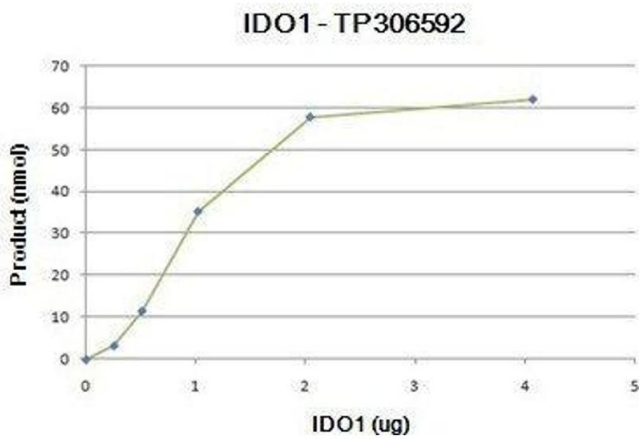
Concentration:	> 50 µg/mL
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.

## Handling

Storage: -80 °C

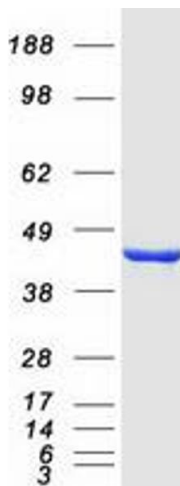
Storage Comment: Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.

## Images



### Activity Assay

**Image 1.** Bioactivity measured with Activity Assay



### Western Blotting

**Image 2.** Validation with Western Blot