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Datasheet for ABIN1344081  
**IDO1 Protein (AA 1-407) (His tag)**

### Overview

Quantity:	50 µg
Target:	IDO1
Protein Characteristics:	AA 1-407
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IDO1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

### Product Details

Cross-Reactivity:	Mouse (Murine)
Characteristics:	Mouse IDO (aa 1-407) is fused at the C-terminus to a His-tag.
Purity:	>90 % (SDS-PAGE)
Sterility:	0.2 µm filtered
Endotoxin Level:	<1EU/µg purified protein (LAL test, Lonza).

### Target Details

Target:	IDO1
Alternative Name:	IDO ( <a href="#">IDO1 Products</a> )

## Target Details

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**Background:** IDO catalyzes the first and rate-limiting step in the main pathway of human tryptophan catabolism, the kynurenine pathway. Proinflammatory mediators, such as endotoxin and IFN-gamma induce the expression of IDO in several tissues. IDO-dependent suppression of T cell responses might function as natural immunoregulatory mechanism. Physiological IDO activity has been implicated in T cell tolerance to tumors, dysfunctional selftolerance in non-obese diabetic (NOD) mice, and as a protective negative regulator in autoimmune disorders.

**Molecular Weight:** ~40kDa (SDS-PAGE)

**UniProt:** [P28776](#)

**Pathways:** [Activated T Cell Proliferation](#)

## Application Details

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**Application Notes:** Optimal working dilution should be determined by the investigator.

**Comment:** Specific Activity: >100'000U/mg protein with L-tryptophan as substrate and after addition of 7µM hemin for protein induction. One unit is defined as the amount of enzyme that produces 1nmol of kynurenine per hour.

**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

**Concentration:** Lot specific

**Buffer:** 0.2µm-filtered solution in 50 mM TRIS-Cl, pH 7.4, containing 1 mM EDTA.

**Storage:** 4 °C,-20 °C

**Storage Comment:** Short Term Storage: +4°C  
Long Term Storage: -20°C  
Working aliquots are stable for up to 3 months when stored at -20°C.

**Expiry Date:** 3 months