

Active Recombinant Human IDO1, His-tagged

Cat. No. IDO1-294H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human IDO (aa 1-403) is fused at the C-terminus to a His-tag.
Species	Human
Source	E.coli
ProteinLength	1-403 a.a.
Description	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- γ 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.
Form	Liquid. 0.2 μ m-filtered solution in 50mM TRIS-Cl, pH 7.4, containing 1mM EDTA.
Bio-activity	Specific Activity: >100'000U/mg protein with L-tryptophan as substrate. One unit is defined as the amount of enzyme that produces 1nmol of kynurenine per hour.
Molecular Mass	~40kDa (SDS-PAGE)
Purity	≥90% (SDS-PAGE)

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Stability	Working aliquots are stable for up to 3 months when stored at -20°C.
Storage	Short Term Storage: +4°C; Long Term Storage: -20°C. After opening, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.
Concentration	1mg/ml
GENE INFORMATION	
Gene Name	IDO1 indoleamine 2,3-dioxygenase 1 [Homo sapiens]
Official Symbol	IDO1
Synonyms	IDO1; indoleamine 2,3-dioxygenase 1; IDO, INDO, indoleamine pyrrole 2,3 dioxygenase; indole 2,3-dioxygenase; indolamine 2,3 dioxygenase; indoleamine-pyrrole 2,3-dioxygenase; IDO; INDO; IDO-1;
Gene ID	3620
mRNA Refseq	NM_002164
Protein Refseq	NP_002155
MIM	147435
UniProt ID	P14902
Chromosome Location	8p12-p11
Pathway	African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism,

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organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Tryptophan catabolism, organism-specific biosystem; Tryptophan metabolism, organism-specific biosystem;

Function

electron carrier activity; heme binding; indoleamine 2,3-dioxygenase activity; metal ion binding; oxidoreductase activity; tryptophan 2,3-dioxygenase activity;

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