

Recombinant Human IDO2 protein, His-tagged

Cat. No. IDO2-22H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IDO2(15-420 aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	15-420 a.a.
Description	Along with the enzymes encoded by the INDO (MIM 147435) and TDO2 (MIM 191070) genes, the enzyme encoded by the INDOL1 gene metabolizes tryptophan in the kynurenine pathway (Ball et al., 2007 [PubMed 17499941]).
Form	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween- 20, 20% glycerol, 3 mM DTT and 150 mM imidazole.
Molecular Mass	46 kDa
AA Sequence	MHHHHHHAHAMENSWTISKEYHIDEEVGFALPNPQENLPDFYNDWMFIAKHLPLDIE SGQLRERVEKLNMLSIDHLTDHKSQRLARLVLCITMAYVWGKGHGVDVRKVLPRNI AVPYCQLSKKLELPPILVYADCVLANWKKKDPNKPLTYENMDVLF SFRDGDCKSGFF LVSLLEVEIAAASAIKVIPTVFKAMQMQRDRTLLKALLEIASCLEKALQVFHQIHDHVNP KAFFSVLRIYLSGWKGNPQLSDGLVYEGFWEDPKFAGGSAGQSSVFCFDVLLGI QQTAGGGHAAQFLQDMRRYMPPAHRNFLCSLESNPVREFVLSKGDAGLREAYDA CVKALVSLRSYHLQIVTKYILIPASQQPKENKTSKLEAKGTGGTDLMNFLKTVR

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	STTE KSLKKEG
Purity	> 90%
Applications	Useful for studying enzyme kinetics, substrate specificity, and screening inhibitors.
Storage	At least 6 months at –80 centigrade. Avoid freeze/thaw cycles. Storing diluted enzyme is not recommended, if necessary, use carrier protein (BSA 0.1 – 0.5%).

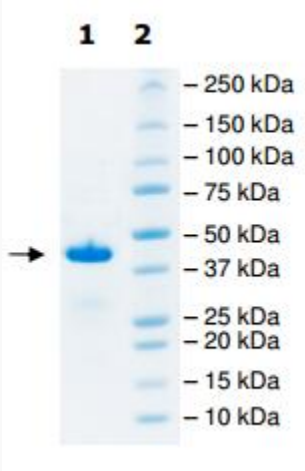
GENE INFORMATION

Gene Name	IDO2 indoleamine 2,3-dioxygenase 2 [Homo sapiens]
Official Symbol	IDO2
Synonyms	IDO2; indoleamine 2,3-dioxygenase 2; INDOL1, indoleamine pyrrole 2,3 dioxygenase like 1; IDO-2; indoleamine 2,3-dioxygenase-like 1 protein; indoleamine 2,3-dioxygenase-like protein 1; indoleamine-pyrrole 2,3 dioxygenase-like 1; indoleamine-pyrrole 2,3-dioxygenase-like protein 1; INDOL1;
Gene ID	169355
mRNA Refseq	NM_194294
Protein Refseq	NP_919270
MIM	612129
UniProt ID	Q6ZQW0

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Chromosome Location	8p11.21
Pathway	African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Tryptophan catabolism, organism-specific biosystem; Tryptophan metabolism, organism-specific biosystem;
Function	heme binding; indoleamine 2,3-dioxygenase activity; indoleamine 2,3-dioxygenase activity; metal ion binding; oxidoreductase activity; tryptophan 2,3-dioxygenase activity;
	

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