

## Active Recombinant Human TDO2, MYC/DDK-tagged

Cat. No. TDO2-824H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TDO2, fused with C-terminal MYC/DDK, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	This gene encodes a heme enzyme that plays a critical role in tryptophan metabolism by catalyzing the first and rate-limiting step of the kynurenine pathway. Increased activity of the encoded protein and subsequent kynurenine production may also play a role in cancer through the suppression of antitumor immune responses, and single nucleotide polymorphisms in this gene may be associated with autism.
<b>Bio-activity</b>	The specific activity of TDO2 was determined by monitoring Kynurenine formation from the N-formylkynurenine based on the absorbance at 492nm.
<b>Molecular Mass</b>	47.7 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method

### GENE INFORMATION

**Gene Name** TDO2 tryptophan 2,3-dioxygenase [ Homo sapiens (human) ]

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<b>Official Symbol</b>	TDO2
<b>Synonyms</b>	TDO; TPH2; TRPO; TDO2; tryptophan 2,3-dioxygenase; TO; tryptophanase; tryptophan oxygenase; tryptophan pyrrolase; tryptamin 2,3-dioxygenase; EC 1.13.11.11
<b>Gene ID</b>	<a href="#">6999</a>
<b>mRNA Refseq</b>	<a href="#">NM_005651</a>
<b>Protein Refseq</b>	<a href="#">NP_005642</a>
<b>MIM</b>	<a href="#">191070</a>
<b>UniProt ID</b>	P48775
<b>Chromosome Location</b>	4q31-q32
<b>Pathway</b>	Metabolic pathways; Tryptophan metabolism; Metabolism of amino acids and derivatives
<b>Function</b>	amino acid binding; heme binding; metal ion binding; oxidoreductase activity; oxygen binding; oxygen binding; tryptophan 2,3-dioxygenase activity

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