Active Recombinant Human TDO2, MYC/DDK-tagged

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

SPECIFICATION

Product Overview	Recombinant Human TDO2, fused with C-terminal MYC/DDK, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Bio-activity	The specific activity of TDO2 was determined by monitoring Kynurenine formation from the N-formylkynurenine based on the absorbance at 492nm.
Molecular Mass	47.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>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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Official Symbol	TDO2
Synonyms	TDO; TPH2; TRPO; TDO2; tryptophan 2,3-dioxygenase; TO; tryptophanase; tryptophan oxygenase; tryptophan pyrrolase; tryptamin 2,3-dioxygenase; EC 1.13.11.11
Gene ID	6999
mRNA Refseq	NM_005651
Protein Refseq	NP_005642
MIM	191070
UniProt ID	P48775
Chromosome Location	4q31-q32
Pathway	Metabolic pathways; Tryptophan metabolism; Metabolism of amino acids and derivatives
Function	amino acid binding; heme binding; metal ion binding; oxidoreductase activity; oxygen binding; oxygen binding; tryptopha 2,3-dioxygenase activity

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