

# Recombinant Human TDO2 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** TDO2-6516H    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

TDO2 MS Standard C13 and N15-labeled recombinant protein (NP\_005642) with a C-terminal MYC/DDK tag, 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.

### Molecular Mass

47.9 kDa

### AA Sequence

MSGCPFLGNNFGYTFFKKLPVEGSEEDKSQTGVNRASKGGLIYGNYLHLEKVLNAQE  
 LQSETKGNKIHDEHLFIITHQAYELWFKQILWELDSVREIFQNGHVRDERNMLKVVSR  
 MHRVSVILKLLVQQFSILETMTALDFNDFREYLSPASGFQSLQFRLLLENKIGVLQNM  
 VPYNRRHYRDNFKGEENELLLKSEQEKTLLLEVEAWLERTPGLEPHGFNFWGKLEK  
 NITRGLIEEFIRIQAKEESEEEKEEQVAEFQKQKEVLLSLFDEKRHEHLLSKGERRLSY  
 RALQGALMIYFYREEPRFQVPFQLLTSMDIDSLMTKWRYNHVCMVHRMLGSKAGT  
 GGSSGYHYLRSTVSDRYKVFVDLFLNLSTYLIPRHWIPKMNPTIHKFLYTAEYCDSSYF  
 SSDES DTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>Storage</b>	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
<b>Concentration</b>	50 µg/mL as determined by BCA
<b>Storage Buffer</b>	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

<b>Gene Name</b>	TDO2 tryptophan 2,3-dioxygenase [ Homo sapiens (human) ]
<b>Official Symbol</b>	TDO2
<b>Synonyms</b>	TDO2; tryptophan 2,3-dioxygenase; TDO; TPH2; tryptophanase; tryptophan oxygenase; tryptophan pyrrolase; tryptamin 2,3-dioxygenase; TO; TRPO;
<b>Gene ID</b>	6999
<b>mRNA Refseq</b>	NM_005651
<b>Protein Refseq</b>	NP_005642
<b>MIM</b>	191070
<b>UniProt ID</b>	P48775

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SDS-PAGE



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