

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	MSGCPFLGNNFGYTFKKLPVEGSEEDKSQTGVNRASKGGLIYGNYLHLEKVLNAQE LQSETKGNKIHDEHLFIITHQAYELWFKQILWELDSVREIFQNGHVRDERNMLKVVS MHRVSVILKLLVQQFSILETMTALDFNDFREYLSPASGFQSLQFRLLLENKIGVLQNM VPYNRRHYRDNFKGEENELLLKSEQEKTLLLEVEAWLERTPGLEPHGFNFWGKLEK NITRGLEEEFIRIQAKEESEEEQVAEFQKQKEVLLSLFDEKRHEHLLSKGERRLSY RALQGALMIYFYREEPRFQVPFQLTSLMDIDSLMTKWRYNHVCMVHRMLGSKAGT GGSSGYHYLRSTVSDRYKVFVDLFNLSTYLIPRHWIPKMNPTIHKFLYTAEYCDSSYF SSDESDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

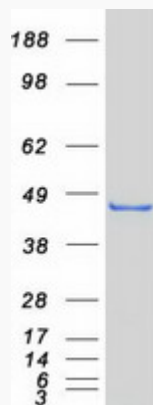
GENE INFORMATION

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

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SDS-PAGE

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