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Product datasheet for PH302777

TDO2 (NM_005651) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TDO2 MS Standard C13 and N15-labeled recombinant protein (NP_005642)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202777
Predicted MW:	47.9 kDa
Protein Sequence:	>RC202777 protein sequence Red=Cloning site Green=Tags(s) MSGCPFLGNNFGYTFKKLPVEGSEEDKSQTGVNRASKGGLIYGNYLHLEKVLNAQELQSETKGNKIHDEH LFIITHQAYELWFKQILWELDSVREIFQNGHVRDERNMLKVVSRMHRVSVILKLLVQQFSILETMTALDF NDFREYLSPASGFQSLQFRLLENKIGVLQNMRVPYNRRHYRDNFKGEENELLLKSEQEKTLLELVEAWLE RTPGLEPHGFNFWGKLEKNITRGLEEEFIRIQAKEESEEKEEQVAEFQKQKEVLLSLFDEKRHEHLLSKG ERRLSYRALQGALMIYFYREEPRFQVPFQLLTSLMDIDSLMTKWRYNHVCMVHRMLGSKAGTGGSSGYHY LRSTVSDRYKVFVDLFNLSTYLIPRHWIPKMNPTIHKFLYTAEYCDSSYFSSDESD TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_005642
RefSeq Size:	1703
RefSeq ORF:	1218
Synonyms:	HYPTRP; TDO; TO; TPH2; TRPO
Locus ID:	6999

View online »

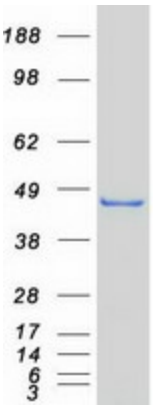
UniProt ID: P48775

Cytogenetics: 4q32.1

Summary: 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. [provided by RefSeq, Feb 2012]

Protein Pathways: Metabolic pathways, Tryptophan metabolism

Product images:



Coomassie blue staining of purified TDO2 protein (Cat# [TP302777]). The protein was produced from HEK293T cells transfected with TDO2 cDNA clone (Cat# [RC202777]) using MegaTran 2.0 (Cat# [TT210002]).