

Recombinant Human TDO2, GST-tagged

Cat. No. TDO2-825H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human TDO2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full Length
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.
Form	50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~69 kDa
Purity	>95%
Applications	Western Blot
Stability	1 yr at -70°C from date of shipment.

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Storage	Store product at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 ug/ul
GENE INFORMATION	
Gene Name	TDO2 tryptophan 2,3-dioxygenase [Homo sapiens (human)]
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; tryptophan 2,3-dioxygenase activity

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