

Recombinant Human TDO2 protein, GST-tagged

Cat. No. TDO2-3171H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human TDO2 protein(55-406 aa), fused with N-terminal GST tag, was expressed in E.coli.

Species Human

Source E.coli

ProteinLength 55-406 aa

Form The purified protein was lyophilized from sterile phosphate-buffered saline (PBS: 58 mM Na₂HPO₄, 17 mM NaH₂PO₄, 68 mM NaCl, pH 8.0). Prior to lyophilization, 5% (w/v) trehalose and 5% (w/v) mannitol were incorporated as cryoprotective excipients. The protein was eluted with a buffer containing 100 mM reduced glutathione (GSH).

AASequence
 QELQSETKGNKIHDEHLFIITHQAYELWFKQILWELDSVREIFQNGHVDRDERNMLKVV
 SRMHRVSVILKLLVQQFSILETMTALDFNDFREYLSPASGFQSLQFRLLLENKIGVLQN
 MRVPYNRRHYRDNFKGEENELLLKSEQEKTLLLELVEAWLERTPGLEPHGFNFWGKL
 EKNITRGLLEEFIRIQAKEESEKEEQVAEFQKQKEVLLSLFDEKRHEHLLSKGERLL
 SYRALQGALMIYFYREEPRFQVPFQLLTSLMDIDSLMTKWRYNHVCMVHRMLGSKA
 GTGGSSGYHYLRSTVSDRYKVFVDLNLSTYLIPRHWIPKMNPTIHKFLYTAEYCD
 SYFSSDESD

Purity 85%, by SDS-PAGE with Coomassie Brilliant Blue staining.

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Storage Store at 2-8°C for 1-2 weeks. Aliquot and store at -20°C to -80°C for up to 3 months, reconstitution with sterile water and addition of an equal volume of glycerol. Avoid repeat freeze-thaw cycles.

Reconstitution Dissolve the product in 200 µl sterile water to achieve a working concentration of 0.25 g/µl. If experimental compatibility allows, mix the aqueous solution with an equal volume of glycerol (1:1 ratio) after initial reconstitution.

GENE INFORMATION

Gene Name TDO2 tryptophan 2,3-dioxygenase [Homo sapiens]

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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