Recombinant Rat TDO2 Protein (1-406 aa), His-SUMO-tagged

Cat. No. TDO2-1958R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat TDO2 Protein (1-406 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Metabolism. Protein Description: Full Length.
Species	Rat
Source	E.coli
ProteinLength	1-406 aa
Description	Incorporates oxygen into the indole moiety of tryptophan. Has a broad specificity towards tryptamine and derivatives including D- and L-tryptophan, 5-hydroxytryptophan and serotonin.
Form	Tris-based buffer,50% glycerol
Molecular Mass	63.9 kDa
AA Sequence	MSGCPFSGNSVGYTLKNLSMEDNEEDGAQTGVNRASKGGLIYGDYLQLEKILNAQE LQSEIKGNKIHDEHLFIITHQAYELWFKQILWELDSVREIFQNGHVRDERNMLKVMTR MHRVVVIFKLLVQQFSVLETMTALDFNDFREYLSPASGFQSLQFRLLENKIGVLQSLR VPYNRKHYRDNFEGDYNELLLKSEQEQTLLQLVEAWLERTPGLEPHGFNFWGKFE KNILKGLEEEFLKIQAKKDSEEKEEQMAEFRKQKEVLLCLFDEKRHDYLLSKGERRLS YRALQGALMIYFYREEPRFQVPFQLLTSLMDIDTLMTKWRYNHVCMVHRMLGSKAG TGGSSGYYYLRSTVSDRYKVFVDLFNLSSYLVPRHWIPKMNPIIHKFLYTAEYSDSSY

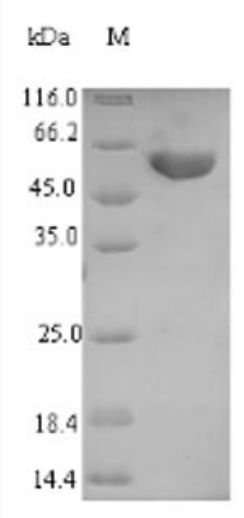
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	FSSDESD
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name	Tdo2 tryptophan 2,3-dioxygenase [Rattus norvegicus]
Official Symbol	TDO2
Synonyms	TDO2; TRPO; tryptophanase; tryptophan oxygenase; tryptophan pyrrolase; TO; Tdo;
Gene ID	64206
mRNA Refseq	NM_022403
Protein Refseq	NP_071798
UniProt ID	P21643

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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