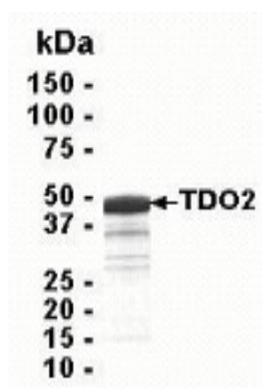


TDO2

Recombinant Human TDO2

Catalog No.	CRT110	Quantity:	50 µg
Alternate Names:	Tryptophan 2,3-dioxygenase, TDO, Tryptophan oxygenase, Tryptophan pyrrolase, Tryptophanase		
Description:	The tetramer binds two molecules of protoheme IV. It is a homotetramer involved in tryptophan catabolism. There is a broad specificity towards tryptamine and derivatives including D- and L-tryptophan, 5-hydroxytryptophan and serotonin. 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 anti tumor immune responses, and single nucleotide polymorphisms in this gene may be associated with autism.		
UniProt ID:	P48775		
Gene ID:	6999		
Source:	<i>E. coli</i>		
Molecular Weight:	46.7 kDa (aa 1-406)		
Formulation:	10 mM Tris, pH 8.0 containing 0.1% Triton X-10, 0.002% NaN ₃ and 10 mM DTT		
Purity:	95% by SDS-PAGE		
Applications:	Western blot, ELISA, Mass Spectrometry.		
Storage & Stability:	Store as supplied at -20°C to -80°C for up to 1 year. Upon initial thaw, prepare working aliquots and store at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		

4-20% gradient SDS-PAGE with Coomassie blue



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