

[Go to Product page](#)

Datasheet for ABIN2745861 TD02 Protein (His tag)

Overview

Quantity:	50 µg
Target:	TD02
Origin:	Mosquito
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TD02 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Characteristics:	Full-length TDO (Anopheles gambiae) is fused at the N-terminus to a His-tag.
Purity:	>98 % (SDS-PAGE)
Endotoxin Level:	.

Target Details

Target:	TD02
Alternative Name:	TDO (TD02 Products)
Background:	Tryptophan 2,3-dioxygenase (TDO) is a heme-containing dioxygenase catalyzing the addition of molecular oxygen across the 2,3-double bond of the indole ring of tryptophan to form N-formylkynurenine (NFK). In Anopheles gambiae, TDO is the only enzyme able to catalyze the first and rate-limiting step in L-Trp catabolism through the kynurenine pathway. Tryptophan is

Target Details

an essential amino acid for protein synthesis and also the precursor for production of a number of neurotransmitters, such as serotonin and melatonin, in mosquitoes, the kynurenine pathway is essential for eye pigmentation. Conceivably, the tryptophan-using pathways should be regulated in a coordinated manner in mosquitoes as well as in other species and TDO activation/inactivation processes could play an essential role in these phenomena.

Molecular Weight: ~47.9kDa

UniProt: [O77457](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Comment: Specific activity towards L-Trp: 87.0µmol/hr per mg. TDO catalyzes the oxidative opening of the L-tryptophan indole moiety to yield N-formylkynurenine (NFK).

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: Liquid. In 50 mM sodium phosphate pH 8.0, containing 0.15M sodium chloride, 0.2M imidazole and 10 % glycerol.

Storage: -20 °C, -80 °C

Storage Comment: Short Term Storage: -20°C
Long Term Storage: -80°C
Stable for at least 6 months after receipt when stored at -80°C.

Expiry Date: 6 months