

Active Recombinant Anopheles gambiae TDO, His-tagged

Cat. No. TDO-85A **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full-length TDO (Anopheles gambiae) is fused at the N-terminus to a His-tag.
Species	Anopheles gambiae
Source	E.coli
Description	In enzymology, a tryptophan 2,3-dioxygenase (EC 1.13.11.11) is an enzyme that catalyzes the chemical reaction $L\text{-tryptophan} + O_2 = N\text{-formyl-L-kynurenine}$. Thus, the two substrates of this enzyme are L-tryptophan and O_2 , whereas its product is N-formyl-L-kynurenine. This enzyme participates in tryptophan metabolism.
Form	Liquid. In 50mM sodium phosphate pH 8.0, containing 0.15M sodium chloride, 0.2M imidazole and 10% glycerol.
Bio-activity	Specific activity towards L-Trp: 87.0 μ mol/hr per mg. TDO catalyzes the oxidative opening of the L-tryptophan indole moiety to yield N-formylkynurenine (NFK).
Molecular Mass	~47.9kDa
Endotoxin	N/A
Purity	≥98% (SDS-PAGE)
Applications	Can be used to test potential kynurenine pathway inhibitors in the mosquito, by continuously monitoring the rate of NFK formation at 321nm ($\epsilon=3152/M\text{ cm}$) in in vitro

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	spectrophotometric assays.
Stability	Stable for at least 6 months after receipt when stored at -80°C.
Storage	Short Term Storage: -20°C Long Term Storage: -80°C After opening, prepare aliquots and store at -80°C. Avoid freeze/thaw cycles.
Concentration	0.5mg/ml (Lot specific)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA