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Data Sheet

TDO2, His-tag

Human, Recombinant, N-terminal His-tag

Catalog #: 71195

Lot #: 181002

Conc.: 2.45 mg/ml

Formulated in: 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween 20, 20% glycerol, 250 mM Imidazole

Stability: At least 6 months at -80°C . *Avoid freeze/thaw cycles. Storing diluted enzyme is not recommended, if necessary, use carrier protein (BSA 0.1 – 0.5%).*

References:

1. Pillotte, L., *et al.*, *Proc. Nat. Acad. Sci (USA)*. 2012; **109(7)**:2497-2502.
2. Miller, C.L., *et al.*, *Neurobiol. Disease*. 2004; **15(3)**: 618-629.

Description: Human Tryptophan 2,3-dioxygenase (TDO2), also known as TDO, GenBank Accession No. NM_005651, a.a. 2-406(end) with an N-terminal His-tag, expressed in an *E. coli* cell expression system. MW = 49 kDa.

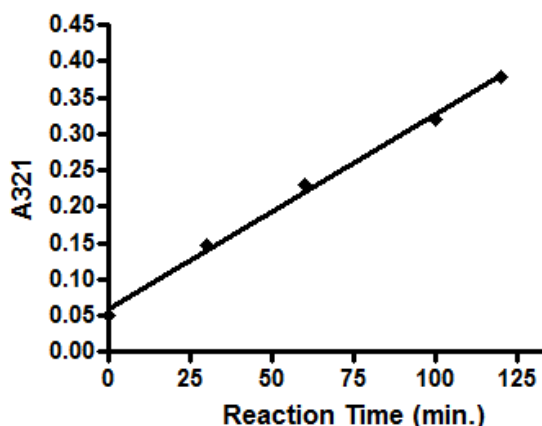
Assay Conditions: All of the reactions were conducted at room temperature. The 100 μl reaction mixture in TDO2 Assay Buffer contains 50 nM TDO2, 500 μM tryptophan, and the coupled reaction components. The reaction mixture incubated for up to 120 min while reading the UV absorption signal. Absorption signals were measured using a Tecan Infinite M1000 plate reader.

Final Assay Conditions:

- 0.1 M Phosphate buffer, pH 7.0
- 0.01% Tween-20
- 0.1 mM Ascorbic Acid
- 0.16 μM Hematin
- 0.56 mM L-Tryptophan

Quality Assurance

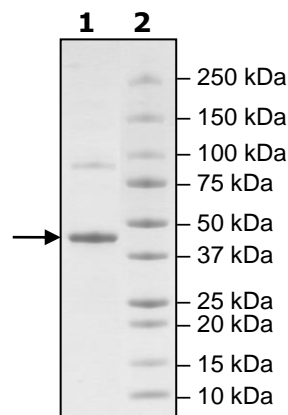
Specific Activity



4-20% SDS-PAGE
Coomassie staining

Lane 1:
2 μg TDO2
Lane 2:
Protein Marker

MW: 49 kDa
Purity: $\geq 85\%$



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