CREATIVE BIOMART®
Assay Kit

# Human TDO Cell-Based Assay Kit

## Product Information

**Cat.No.** Kit-1760

**Product Overview**

L-tryptophan (L-Trp) is an essential amino acid necessary for protein synthesis in mammalian cells and the L-Trp to kynurenine (Kyn) pathway is firmly established as a key regulator of innate and adaptive immunity. Catabolism of L-Trp to Kyn maintains an immunosuppressive microenvironment by starving immune cells of L-Trp and releasing degradation products of L-Trp that have immunosuppressive functions. Tryptophan 2,3 dioxygenase (TDO), one of the rate limiting enzymes in this pathway, is upregulated in many tumors, providing cancer cells with an avenue for immune evasion.

**Size**

100 reactions

**Description**

The human TDO Cell-Based Assay Kit is designed to monitor the activity of exogenously expressed human TDO in cultured cells.

**Applications**

Screen for inhibitors of hTDO enzyme in a cellular context.

**Storage**

Stable at least 6 months from date of receipt, when stored as directed. Kit components require different storage conditions. Be sure to store each component at the proper temperature upon arrival.

**Kit Components**

hTDO Expression Vector (Component A): 100 µl (50 ng DNA/µl); -20°C TDO Assay Medium Supplement 1 (Component B): 2 x 200 µl; 4°C TDO Assay Medium Supplement 2 (Component C): 200 µl; -20°C TDO Detection Reagent (Component D): 200 mg; Room temperature

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