CREATIVE BIOMART®
Assay Kit

Human TDO Inhibitor Screening Assay Kit (384)

Product Information

Cat.No. Kit-1762

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) is upregulated in many tumors, providing cancer cells with an avenue for immune evasion.

Size

384 reactions

Description

The TDO Inhibitor Screening Assay Kit is designed to measure TDO enzyme inhibition. The TDO Inhibitor Screening Assay Kit is simple to use. Inhibitor and enzyme are added to a sample containing L-Trp substrate. After a room temperature incubation, activity is measured by measuring the absorption of reaction product at □ = 320-325 nm.

Applications

Useful for the study of TDO enzymology, screening inhibitors and selectivity profiling.

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

TDO His-Tag: 100 µg; -80°C TDO Reaction Solution: 4 x 10 ml; -80°C TDO Assay Buffer: 2 x 1 ml; -80°C UV transparent 384-well plate: 1; Room Temp.

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