CREATIVE BIOMART®
Assay Kit

Mouse IDO2 Inhibitor Screening Assay Kit

Product Information

Cat.No. Kit-1783

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. Indoleamine 2,3- dioxygenases (IDO1 & IDO2), two of the rate limiting enzymes in this pathway, are upregulated in many tumors, providing cancer cells with an avenue for immune evasion.

Size

96 reactions

Description

The IDO2 Inhibitor Screening Assay Kit is designed to measure mouse IDO2 enzyme inhibition. The Mouse IDO2 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 determined by measuring the absorption of reaction product at l=320-325 nm. BACKGROUND: L-tryptophan

Applications

Useful for the study of mouse IDO2 enzymology, screening inhibitors, and selectivity profiling.

Storage

At least 6 months from date of receipt when stored as directed.

Kit Components

Mouse IDO2 His-Tag: 400 µg; -80°C IDO2 Reaction Solution: 2 x 10 mL; -80°C IDO2 Assay Buffer: 1 mL; -80°C UV transparent 96-well plate: 1; Room Temp.

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