CREATIVE BIOMART®
Assay Kit

Mouse IDO1 Inhibitor Screening Assay Kit

Product Information

Cat.No. Kit-1782

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 Mouse IDO1 Inhibitor Screening Assay Kit is designed to measure inhibition of the murine IDO1 enzyme. This 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.

Applications

Useful for the study of mouse IDO1 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

Mouse IDO1 His-Tag: 40 µg; -80°C IDO Reaction Solution: 2 x 10 mL; -80°C IDO1 Assay Buffer: 1 mL; -80°C UV transparent 96-well plate: 1; Room Temp.

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