



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 μ l (50 ng DNA/ μ l); -20°C TDO Assay Medium Supplement 1 (Component B): 2 x 200 μ l; 4°C TDO Assay Medium Supplement 2 (Component C): 200 μ l; -20°C TDO Detection Reagent (Component D): 200 mg; Room temperature