



Recombinant Protein Technical Manual

Recombinant Human IDO1/IDO Protein (His Tag)(Active)
RPES1387

Product Data:

Product SKU: RPES1387

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P14902

Protein Information:

Molecular Mass: 46.8 kDa

AP Molecular Mass: 40-50 kDa

Tag: N-6His

Bio-activity: Measured by its ability to oxidize L-tryptophan to N-formyl-kynurenine. The specific activity is 5166.667 pmol/min/µg pmol/min/µg.

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM Sodium Acetate, 150mM NaCl and 20% Glycerol, pH4.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Indole 2;3-dioxygenase; Indoleamine 2;3-dioxygenase 1; IDO; IDO1; IDO; INDO

Immunogen Information:

Sequence: Met 1-Gly403

Background:

Indoleamine 2,3-dioxygenase (IDO) is a heme enzyme that initiates the oxidative degradation of the least abundant, essential amino acid, L-tryptophan, along the kynurenine pathway. This protein is normally expressed in the dendritic cells, macrophages, microglia, eosinophils, fibroblasts, endothelial cells, and most tumor cells. IDO activity is associated with immunosuppression and immune attenuation. Several studies showed that IDO can contribute to immune escape when expressed directly in tumor cells or when expressed in immunosuppressive antigen presenting cells such as tolerogenic dendritic cells or tumor associated macrophages. IDO also is a promising therapeutic target for the treatment of cancer, chronic viral infections, and other diseases characterized by pathological immune suppression.