Recombinant Human IDO1/IDO Protein (His Tag)

Catalog Number:PKSH032584

Note: Centrifuge before opening to ensure complete recovery of vial contents.

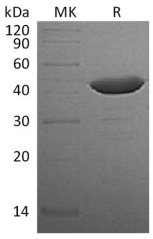
Description

Synonyms	Indole 2;3-dioxygenase;Indoleamine 2;3-dioxygenase 1;IDO-1;IDO1;IDO;INDO
Species	Human
Expression Host	E.coli
Sequence	Met 1-Gly403
Accession	P14902
Calculated Molecular Weight	46.8 kDa
Observed molecular weight	40-50 kDa
Tag	N-His
Bioactivity	Measured by its ability to oxidize L-tryptophan to N-formyl-kynurenine. The specific activity is 5166. 667 pmol/min/μg pmol/min/μg.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein 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, 20% Glycerol, pH 4.5.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

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.

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