

Recombinant Human IDO-1 Protein

Catalog No.: RP00023 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 3620 P14902

Tags

No tag

Synonyms

IDO; IDO-1;

INDO;IDO1;IDO-1;INDO;indoleamine 2

Product Information

Source Purification
E. coli > 97% by SDSPAGE.

Endotoxin

< 0.1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of 50mM Tris, 150mM NaCl, pH 8.0.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening.
Reconstitute to a concentration of
0.1-0.5 mg/mL in sterile distilled water.
Avoid votex or vigorously pipetting the
protein. For long term storage, it is
recommended to add a carrier protein
or stablizer (e.g. 0.1% BSA, 5% HSA,
10% FBS or 5% Trehalose), and aliquot
the reconstituted protein solution to
minimize free-thaw cycles.

Contact

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Background

Indoleamine 2,3-dioxygenase (IDO) is a heme enzyme that catalyzes the first and rate-limiting step in tryptophan catabolism to N-formyl-kynurenine. This enzyme acts on multiple tryptophan substrates including D-tryptophan, L-tryptophan, 5-hydroxy-tryptophan, tryptamine, and serotonin. This enzyme is thought to play a role in a variety of pathophysiological processes such as antimicrobial and antitumor defense, neuropathology, immunoregulation, and antioxidant activity. Through its expression in dendritic cells, monocytes, and macrophages this enzyme modulates T-cell behavior by its peri-cellular catabolization of the essential amino acid tryptophan.

Basic Information

Description

Recombinant Human IDO-1 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ala2-Gly403) of human IDO-1 (Accession #NP_002155.1).

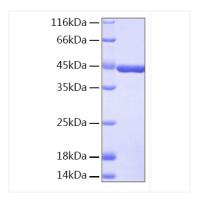
Bio-Activity

Storage

Store the lyophilized protein at -20° C to -80° C for long term. After reconstitution, the protein solution is stable at -20° C for 3 months, at 2-8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human IDO-1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 43 kDa.