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Datasheet for ABIN7520080

IDO1 Protein

Overview

Quantity:	10 µg
Target:	IDO1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Active Recombinant Human IDO-1 Protein
Sequence:	AHAMENSWTI SKEYHIDEEV GFALPNPQEN LPDFYNDWMF IAKHLPLDIE SGQLRERVEK LNMLSIDHLT DHKSQRLARL VLGCITMAYV WGKGGHDVVRK VLP RNAVPY CQLSKKLELP PILVYADCVL ANWKKKDPNK PLTYENMDVL FSFRDGDGCSK GFFLVSLLE IAAASAIKVI PTVFKAMQMQ ERDTLLKALL EIASCLEKAL QVFHQIHDHV NPKAFFSVLR IYLSGWKGNP QLSDGLVYEG FWEDPKEFAG GSAGQSSVFQ CFDVLLGIQQ TAGGGHAAQF LQDMRRYMPP AHRNFLCSLE SNPSVREFVL SKGDAGLREA YDACVKALVS LRSYHLQIVT KYILIPASQQ PKENKTSEDP SKLEAKGTGG TDL MNFLKTV RSTTEKSLK EG
Specificity:	Ala2-Gly403
Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.

Target Details

Target:	IDO1
Alternative Name:	IDO-1 (IDO1 Products)
Background:	<p>Description: 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.</p> <p>Name: IDO, IDO-1, INDO,IDO1,IDO-1,INDO,indoleamine 2</p>
Gene ID:	3620
UniProt:	P14902
Pathways:	Activated T Cell Proliferation

Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of 50 mM Tris, 150 mM NaCl, pH 8.0.
Storage:	-20 °C,-80 °C
Storage Comment:	<p>Store the lyophilized protein at -20°C to -80 °C for long term.</p> <p>After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.</p>