

Datasheet for ABIN6239816
IDO Protein (AA 2-403) (His tag)

2 Images

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Overview

Quantity:	50 µg
Target:	IDO
Protein Characteristics:	AA 2-403
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This IDO protein is labelled with His tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 97 %
Biological Activity Comment:	IDO (Indoleamine 2,3-dioxygenase 1) 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. Thus, bioactivity of recombinant human IDO was measured through its ability to oxidize L-tryptophan to N-formyl-kynurenine, using Methylene Blue as indicator. Briefly, a mixture of 800µM L-tryptophan, 9000 units/mL catalase, and 40µM Methyene Blue with the addition of 80mM ascorbic acid reaction buffer was incubated with different concentrations of IDO, and the absorbance was read in 321nm every 1.5h. The result indicated that recombinant human IDO oxidize L-tryptophan Enzyme activity of recombinant human IDO.

Target Details

Target:	IDO
Alternative Name:	Indoleamine-2,3-Dioxygenase (IDO) (IDO Products)
Background:	Alternative Names: CD107B, INDO, Indoleamine-Pyrrole 2,3 Dioxygenase
Molecular Weight:	43kDa
UniProt:	P14902

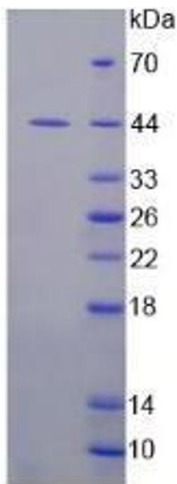
Application Details

Application Notes:	Isoelectric Point: 6.8
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % skl, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Images



SDS-PAGE

Image 1. Figure. SDS-PAGE; Sample: Active recombinant IDO, Human.

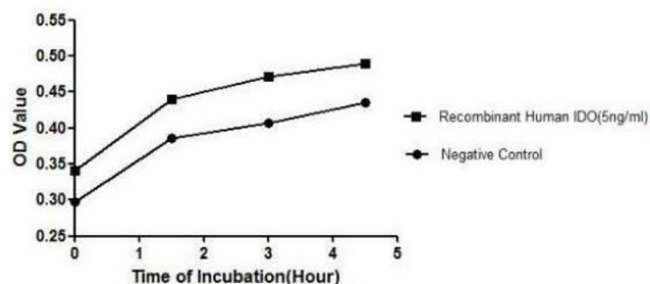


Figure 1. Enzyme activity of recombinant human IDO.

Image 2. IDO (Indoleamine 2,3-dioxygenase 1) 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. Thus, bioactivity of recombinant human IDO was measured through its ability to oxidize L-tryptophan to N-formyl-kynurenine, using Methylene Blue as indicator. Briefly, a mixture of 800 μ M L-tryptophan, 9000 units/mL catalase, and 40 μ M Methylene Blue with the addition of 80mM ascorbic acid reaction buffer was incubated with different concentrations of IDO, and the absorbance was read in 321nm every 1.5h. The result indicated that recombinant human IDO oxidize L-tryptophan.