Datasheet for ABIN7319583

IDO2 Protein (His tag)

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Overview

Quantity:	50 µg
Target:	IDO2
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IDO2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human IDO2 Protein (His Tag)
Sequence:	Met14-Gly420
Characteristics:	Recombinant Human IDO2 is produced by our E.coli expression system and the target gene encoding Met14-Gly420 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	IDO2
Alternative Name:	IDO2 (IDO2 Products)
Background:	Background: Indoleamine 2,3-dioxygenase-like protein 1(IDO2) belongs to the indoleamine 2,3-dioxygenase family. IDO2 can be detected in liver, small intestine, spleen, placenta, thymus, lung, brain, kidney, and colon. It also expressed at low level in testis and thyroid but not

Target Details

	expressed in the majority of human tumor samples. IDO2 catalyzes the first and rate limiting step of the catabolism of the essential amino acid tryptophan along the kynurenine pathway. It involved in immune regulation. IDO1 and IDO2 are 2 distinct enzymes which catalyze the same reaction. IDO2 affinity for tryptophan is much lower than that of IDO1. 50 % of Caucasians harbor polymorphisms which abolish IDO2 enzymatic activity. IDO2 is expressed in human tumors in an inactive form: tryptophan degradation is entirely provided by IDO1 in these cells. IDO2 may play a role as a negative regulator of IDO1 by competing for heme-binding with IDO1. Low efficiency IDO2 enzymes have been conserved throughout vertebrate evolution, whereas higher efficiency IDO1 enzymes are dispensable in many lower vertebrate lineages. IDO1 may have arisen by gene duplication of a more ancient proto-IDO gene before the divergence of marsupial and eutherian (placental) mammals. Synonym: INDOL1
Molecular Weight:	46.5 kDa
UniProt:	Q6ZQW0

Application Details

Restrictions:	For Research Use only

Handling

Format:	Frozen, Liquid
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 10 % Glycerol,1 mMEDTA,250 mM NaCl, pH 8.0.
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.