IDO-2 Protein, Human (P.pastoris, His)

Cat. No.:	HY-P71743
Synonyms:	3-dioxygenase 2; Indoleamine-pyrrole 2
Species:	Human
Source:	P. pastoris
Accession:	Q6ZQW0 (14M-420G)
Gene ID:	169355
Molecular Weight:	Approximately 50.4 kDa

PROPERTIES

AA Sequence	MEPHRPNVKT AVPLSLESYH ISEEYGFLLP DSLKELPDHY RPWMEIANKL PQLIDAHQLQ AHVDKMPLLS CQFLKGHREQ RLAHLVLSFL TMGYVWQEGE AQPAEVLPRN LALPFVEVSR NLGLPPILVH SDLVLTNWTK KDPDGFLEIG NLETIISFPG GESLHGFILV TALVEKEAVP GIKALVQATN AILQPNQEAL LQALQRLRLS IQDITKTLGQ MHDYVDPDIF YAGIRIFLSG WKDNPAMPAG LMYEGVSQEP LKYSGGSAAQ STVLHAFDEF LGIRHSKESG DFLYRMRDYM PPSHKAFIED IHSAPSLRDY ILSSGQDHLL TAYNQCVQAL AELRSYHITM VTKYLITAAA KAKHGKPNHL PGPPQALKDR GTGGTAVMSF LKSVRDKTLE SILHPRG
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Indoleamine 2,3-dioxygenase 2 (IDO-2) is an enzyme that catalyzes the first and rate-limiting step in the catabolism of the essential amino acid tryptophan along the kynurenine pathway. This pathway is crucial for the regulation of tryptophan metabolism and has implications in immune regulation. IDO-2's activity contributes to immune modulation by limiting tryptophan availability, which, in turn, affects immune cell function. While IDO-2 is involved in immune regulation, it may not play a significant role in tryptophan-related tumoral resistance, as suggested by certain studies.

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