abcam

Product datasheet

Recombinant Human kynurenine 3-monooxygenase protein ab152891

1 Image

Description

Product name	Recombinant Human kynurenine 3-monooxygenase protein
Expression system	Wheat germ
Accession	O15229-2
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MDSSVIQRKKVAVIGGGLVGSLQACFLAKRNFQIDVYEAR EDTRVATFTR GRSINLALSHRGRQALKAVGLEDQIVSQGIPMRARMIHSLS GKKSAIPYG TKSQYILSVSRENLNKDLLTAAEKYPNVKMHFNHRLLKCN PEEGMITVLG SDKVPKDVTCDLIVGCDGAYSTVRSHLMKKPRFDYSQQYI PHGYMELTIP PKNGDYAMEPNYLHIWPRNTFMMIALPNMNKSFTCTLFMP FEEFEKLLTS NDVVDFFQKYFPDAIPLIGEKLLVQDFFLLPAQPMISVKCS SFHFKSHCV LLGDAAHAIVPFFGQGMNAGFEDCLVFDELMDKFSNDLS LCLPVFSRLRI PDDHAISDLSMYNYIEKNMERFLHAIMPSTFIPLYTMVTFSRI RYHEAVQ RWHWQKR
Predicted molecular weight	71 kDa including tags
Amino acids	1 to 407

Specifications

Our **Abpromise guarantee** covers the use of **ab152891** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE

	Western blot
	ELISA
Form	Liquid

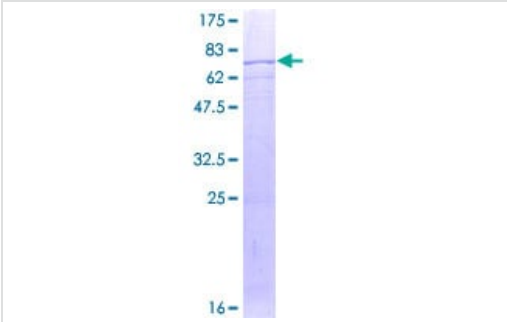
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function	Catalyzes the hydroxylation of L-kynurenine (L-Kyn) to form 3-hydroxy-L-kynurenine (L-3OHKyn). Required for synthesis of quinolinic acid, a neurotoxic NMDA receptor antagonist and potential endogenous inhibitor of NMDA receptor signaling in axonal targeting, synaptogenesis and apoptosis during brain development. Quinolinic acid may also affect NMDA receptor signaling in pancreatic beta cells, osteoblasts, myocardial cells, and the gastrointestinal tract.
Tissue specificity	Highest levels in placenta and liver. Detectable in kidney.
Pathway	Cofactor biosynthesis; NAD(+) biosynthesis; quinolinate from L-kynurenine: step 1/3.
Sequence similarities	Belongs to the aromatic-ring hydroxylase family. KMO subfamily.
Cellular localization	Mitochondrion outer membrane.

Images



SDS-PAGE - Recombinant Human kynurenine 3-monooxygenase protein (ab152891)

12.5% SDS-PAGE analysis of ab152891 stained with Coomassie Blue.

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