

Product Data Sheet

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KYAT1 Protein, Human (His-SUMO)

Cat. No.:	HY-P71533
Synonyms:	KYAT1; CCBL1; Kynurenineoxoglutarate transaminase 1; EC 2.6.1.7; Cysteine-S-conjugate beta- lyase; EC 4.4.1.13; Glutamine transaminase K; GTK; Glutaminephenylpyruvate transaminase; EC 2.6.1.64; Kynurenine aminotransferase 1; Kynurenine aminotransferase I; KATI; Kynurenine oxoglutarate transaminase I
Species:	Human
Source:	E. coli
Accession:	Q16773 (1M-372L)
Gene ID:	883
Molecular Weight:	Approximately 58.6 kDa

PROPERTIES

/// Sequence	MAKQLQARRL	DGIDYNPWVE	FVKLASEHDV	VNLGQGFPDF			
	PPPDFAVEAF	QHAVSGDFML	ΝQΥΤΚΤFVII	IEPFFDCYEP			
	MTMMAGGRPV	FVSLKPGPIQ	NGELGSSSNW	QLDPMELAGK			
	FTSRTKALVL	NTPNNPLGKV	FSREELELVA	SLCQQHDVVC			
	ITDEVYQWMV	YDGHQHISIA	SLPGMWERTL	TIGSAGKTFS			
	ATGWKVGWVL	GPDHIMKHLR	ТVНQNSVFHC	ΡΤQSQAAVAE			
	SFEREQLLFR	QPSSYFVQFP	Q A M Q R C R D H M	IRSLQSVGLK			
	PIIPQGSYFL	ITDISDFKRK	MPDLPGAVDE	PYDRRFVKWM			
	IKNKGLVAIP	VSIFYSVPHQ	KHFDHYIRFC	FVKDEATLQA			
	MDEKLRKWKV	EL					
	The second second the stability			<u> </u>			
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.						
Appearance	Lyophilized powder						
Appearance	Lyophilized powder.						
Formulation	I vonhilized after extensive dialysis against solution in Tris-based huffer 50% glycerol						
- officiation	Lyophilized arter extensive dialysis against solution in this based bullet, 50% giver of.						
Endotoxin Level	<1 FU/ug. determined by LAL method.						
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.						
			1.0	<u>r</u>			
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.						
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DESCRIPTION

Background

KYAT1 protein plays a pivotal role in cellular metabolism by catalyzing the irreversible transamination of the L-tryptophan metabolite L-kynurenine, leading to the formation of kynurenic acid (KA). This enzymatic activity is integral to the tryptophan catabolic pathway, where kynurenic acid serves as an intermediate. Notably, kynurenic acid acts as a broadspectrum antagonist for various receptors, including the three ionotropic excitatory amino acid receptors. Beyond its involvement in tryptophan metabolism, KYAT1 also plays a role in the biotransformation of cysteine conjugates of specific halogenated alkenes and alkanes, contributing to the generation of reactive metabolites. Additionally, KYAT1 catalyzes the beta-elimination of S-conjugates and Se-conjugates of L-(seleno)cysteine, leading to the cleavage of the C-S or C-Se bond.

Caution: Product has not been fully validated for medical applications. For research use only.

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