

Recombinant human Kynurenine/alpha-aminoadipate aminotransferase, mitochondrial



Catalog No: #AP71444

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Package Size: #AP71444-1 20ug #AP71444-2 100ug #AP71444-3 1mg

Description

Product Name	Recombinant human Kynurenine/alpha-aminoadipate aminotransferase, mitochondrial
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:30-425aaSequence Info:Full Length
Other Names	2-aminoadipate aminotransferase2-aminoadipate transaminase (EC:2.6.1.39)Alpha-aminoadipate aminotransferase ;AadATKynurenine aminotransferase IIKynurenine--oxoglutarate aminotransferase IIKynurenine--oxoglutarate transaminase 2 (EC:2.6.1.7)Kynurenine--oxoglutarate transaminase II
Accession No.	Q8N5Z0
Uniprot	Q8N5Z0
GeneID	51166;
Calculated MW	60.2 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	PKSMISLAGGLPNPNMFPKTAIVITVENGKTIQFGEEMMKRALQYSPSAGIPELLSWLKQLQIKLHNPPTIHYPY SQGQMDLCVTSQSQQGLCKVFEMIINPGDNVLLDEPAYSGTLQSLHPLGCNIINVASDESIGVPSLDRDILSRW KPEDAKNPQKNTPKFLYTPNGNNTGNSLTSERKKEIYELARKYDFLIIEDDPYYFLQFNKFRVPTFLSMDVD GRVIRADSFSKIISGLRIGFLTGPKPLIERVILHIQVSTLHPSTFNQLMISQLLHEWGEEGFMAHVDRVIDFYSN QKDAILAAADKWLTLGLAEWHVPAAGMFLWIKVKGINDVKELIEEKAVKMGVLMPLGNAFYVDSSAPSPYLRAS FSSASPEQMDVAFQVLAQLIKESL
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Transaminase with broad substrate specificity. Has transaminase activity towards aminoadipate, kynurenine, methionine and glutamate. Shows activity also towards tryptophan, aspartate and hydroxykynurenine. Accepts a variety of oxo-acids as amino-group acceptors, with a preference for 2-oxoglutarate, 2-oxocaproic acid, phenylpyruvate and alpha-oxo-gamma-methiol butyric acid. Can also use glyoxylate as amino-group acceptor (in vitro).

References

Crystal structure of human kynurenine aminotransferase II, a drug target for the treatment of schizophrenia.Rossi F., Garavaglia S., Montalbano V., Walsh M.A., Rizzi M.J. Biol. Chem. 283:3559-3566(2008)Research Topic:Signal Transduction

Note: This product is for in vitro research use only