Datasheet for ABIN5854334

ALT Protein (AA 1-496) (His tag)

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Overview

Quantity:	100 µg
Target:	ALT
Protein Characteristics:	AA 1-496
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ALT protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	MGSSHHHHHH SSGLVPRGSH MGSMASRVND QSQASRNGLK GKVLTLDTMN PCVRRVEYAV RGPIVQRALE LEQELRQGVK KPFTEVIRAN IGDAQAMGQR PITFFRQVLA LCVYPNLLSS PDFPEDAKRR AERILQACGG HSLGAYSISS GIQPIREDVA QYIERRDGGI PADPNNIFLS TGASDAIVTM LKLLVSGEGR ARTGVLIPIP QYPLYSAALA ELDAVQVDYY LDEERAWALD IAELRRALCQ ARDRCCPRVL CVINPGNPTG QVQTRECIEA VIRFAFKEGL FLMADEVYQD NVYAEGSQFH SFKKVLMEMG PPYSTQQELA SFHSVSKGYM GECGFRGGYV EVVNMDAEVQ KQMGKLMSVR LCPPVPGQAL MDMVVSPPTP SEPSFKQFQA ERQEVLAELA AKAKLTEQVF NEAPGIRCNP VQGAMYSFPQ VQLPLKAVQR AQELGLAPDM FFCLCLLEET GICVVPGSGF GQQEGTYHFR MTILPPMEKL RLLLEKLSHF HAKFTHEYS
Purity:	> 90 % by SDS - PAGE

Product Details

Biological Activity Comment:	Specific activity is > 60units/mg, and is defined as the amount of enzyme that cleaves 1umole of L-Alanine to L-Glutamate per minute at pH 7.5 at 37C.

Target Details

Target:	ALT
Alternative Name:	Gpt (ALT Products)
Background:	Gpt also known as Alanine aminotransferase 1, is a pyridoxal enzyme which catalyses the reversible interconversion of L-alanine and 2-oxoglutalate to pyruvate and L-glutamate. The Gpt is widely distributed in various tissues from animals and even in some kind of plants. It is suggested that c-ALT is associated to the utilization of pyruvate in glycolysis and m-ALT is involved in the conversion of alanine to pyruvate for gluconeogenesis. Recombinant rat Gpt, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques
Molecular Weight:	57.5kDa (519aa)
NCBI Accession:	NP_112301
UniProt:	P25409

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Bioactivity Validated
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Liquid. In Phosphate Buffered Saline pH 7.4 containing 10 % glycerol
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.