

Product datasheet

Recombinant human Alanine Transaminase protein (His tag) ab206804

[1 References](#) [1 Image](#)

Description

Product name	Recombinant human Alanine Transaminase protein (His tag)
Biological activity	> 100units/mg, and is defined as the amount of enzyme that cleaves 1µmole of L-Alanine to L-Glutamate per minute at pH 7.5 at 37C
Purity	> 95 % SDS-PAGE. purified by using conventional chromatography.
Expression system	Escherichia coli
Accession	<u>P24298</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<p>MGSSHHHHHH SSGLVPRGSH MASSTGDRSQ AVRHGLRAKV LTLDGMNPRV RRVEYAVRGP VQRALELEQ ELRQGVKKPF TEVIRANIGD AQAMGQRPIT FLRQVLALCV NPDLLSSPNF PDDAKKRAER ILQACGGHSL GAYSVSSGIQ LIREDVARYI ERRDGGIPAD PNNVFLSTGA SDAMTVLKL LVAGEGHTRT GVLIPQYP LYSATLAELG AVQVDYYLDE ERAWALDVAE LHRALGQARD HCRPRALCVI NPGNPTGQVQ TRECIEAVIR FAFEERLFL ADEVYQDNVY AAGSQFHFSFK KVLMEMGPPY AGQQELASFH STSKGYMGEC GFRGGYEVV NMDAAVQQQM LKLMSVRLCP PVPGQALLDL VVSPAPTDP SFAQFQAEKQ AVLAEAAKA KLTEQVFNEA PGISCNPVQG AMYSFPRVQL PPRAVERAQE LGLAPDMFFC LRLLEETGIC VVPGSGFGQR EGTYHFRMTI LPPELKLRL LEKLSRFHAK FTLEYS</p>
Predicted molecular weight	57 kDa including tags
Amino acids	1 to 496
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab206804** 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 Functional Studies Mass Spectrometry
Mass spectrometry	MALDI-TOF
Form	Liquid

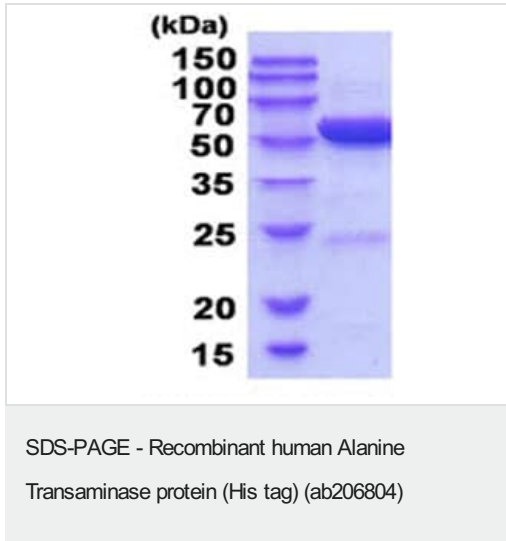
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.32% Tris HCl, 20% Glycerol, 0.03% DTT This product is an active protein and may elicit a biological response in vivo, handle with caution.
------------------------------	--

General Info

Function	Catalyzes the reversible transamination between alanine and 2-oxoglutarate to form pyruvate and glutamate. Participates in cellular nitrogen metabolism and also in liver gluconeogenesis starting with precursors transported from skeletal muscles.
Tissue specificity	Liver, kidney, heart, and skeletal muscles. Expressed at moderate levels in the adipose tissue.
Pathway	Amino-acid degradation; L-alanine degradation via transaminase pathway; pyruvate from L-alanine: step 1/1.
Sequence similarities	Belongs to the class-I pyridoxal-phosphate-dependent aminotransferase family. Alanine aminotransferase subfamily.
Cellular localization	Cytoplasm.

Images



15% SDS-PAGE analysis of ab206804 (3µg).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors