

GPT2/ALT2, human recombinant

CATALOG #:	7806-50	50 µg
ALTERNATE NAMES:	Alanine aminotransferase 2, AAT2, ALT2	
SOURCE:	E. Coli	
PURITY:	> 90% by SDS - PAGE	
MOL. WEIGHT:	60.3 kDa (546 aa, 1-523 aa + His Tag)	
FORM:	Liquid	
FORMULATION:	0.5 mg/ml solution 20 mM Tris-HCl buffer (pH 7.5), 30% glycerol, 0.2 M NaCl and 2 mM DTT.	

STORAGE CONDITIONS:

Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

DESCRIPTION:

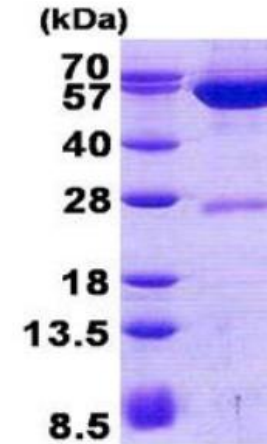
Alanine aminotransferase 2, also known as GPT2, catalyzes the reversible transamination between alanine and 2-oxoglutarate to form pyruvate and glutamate. Subsequently, they play a key role in the intermediary metabolism of glucose and amino acids. GPT2 expression is high in muscle, fat and kidney. Recombinant human GPT2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AMINO ACID SEQUENCE:

MGSSHHHHHH SSSLVPRGSH MGSMQRAAAL VRRGCGPRTP SSWGRSQSSA
AAEASAVLKV RPERSRRERI LTLESMNPQV KAVEYAVRGP IVLKAGEIEL ELQRGIKKPF
TEVIRANIGD AQAMGQQPIT FLRQVMALCT YPNLLDSPSF PEDAKKRARR ILQACGGNSL
GSYSASQGVN CIREDVAAYI TRRDGGVPAD PDNIYLTGGA SDGISTILKI LVSGGKSRRT
GVMPIQPYP LYSAVISELD AIQVNYLDE ENCWALNVNE LRAVQEAKEK HCDPKVLCII
NPGNPTGQVQ SRKCIEDVIH FAWEEKLFLF ADEVYQDNVY SPDCRFHSFK
KVLVEMGPEY SSVNELASFH STSKGYMGEC GYRGGYMEVI NLHPEIKGQL VKLLSVRLCP
PVSGQAAMDI VVNPPVAGEE SFEQFSREKE SVLGNLAKKA KLTEDLFNQV PGIHCNPLQG
AMYAFPRIFI PAKAVEAAQA HQMAPDMFYC MKLLEETGIC VVPGSGFGQR EGTYHFRMTI
LPPVEKLVTV LQVKDFHIN FLEKYA

BIOLOGICAL ACTIVITY:

Specific activity is > 30 unit/mg; One unit will convert 1.0 µmole of L-Alanine to L-Glutamate per minute at pH 7.5 at 37°C.



15% SDS-PAGE (3ug)

Human Recombinant GPT2/ALT2

RELATED PRODUCTS:

- GPT1/ALT1, human recombinant (**Cat. No. 7805-100**)
- Alanine Aminotransferase (ALT or SGPT) Activity Assay Kit (**Cat. No. K752-100**)
- Alanine Colorimetric/Fluorometric Assay Kit (**Cat. No. K652-100**)

FOR RESEARCH USE ONLY! Not to be used in humans.