10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GPT/ALT1, human recombinant protein

Alanine aminotransferase 1, AAT1, ALT1, GPT1
Catalog # PBV11364r

Specification

GPT/ALT1, human recombinant protein - Product info

Primary Accession	P24298
Concentration	0.5
Calculated MW	56.8 kDa (516 aa, 1-496 aa + His Tag) KDa

GPT/ALT1, human recombinant protein - Additional Info

Gene ID	2875
Gene Symbol	GPT

Other Names
Alanine aminotransferase 1, AAT1, ALT1, GPT1

Gene Source	Human
Source	E.coli
Assay&Purity	SDS-PAGE; ≥90%
Assay2&Purity2	N/A;
Recombinant	Yes
Results	Specific activity is > 20 unit/mg
Sequence	MGSSHHHHHH SSGLVPRGSH MASSTGDRSQ AVRHGLRAKV LTLDGMNPRV RRVEYAVRGP IVQRALELEQ ELRQGVKKPF TEVIRANIGD AQAMGQRPIT FLRQVLALCV NPDLLSSPNF PDDAKKRAER ILQACGGHSL GAYSVSSGIQ LIREDVARYI ERRDGGIPAD PNNVFLSTGA SDAIVTVLKL LVAGEGHTRT GVLIPIPQYP LYSATLAELG AVQVDYYLDE ERAWALDVAE LHRALGQARD HCRPRALCVI NPGNPTGQVQ TRECIEAVIR FAFEERLFLL ADEVYQDNVY AAGSQFHSFK KVLMEMGPPY AGQQELASFH STSKGYMGEC GFRGGYVEVV NMDAAVQQQM LKLMSVRLCP PVPGQALLDL VVSPPAPTDP SFAQFQAEKQ AVLAELAAKA KLTEQVFNEA PGISCNPVQG AMYSFPRVQL PPRAVERAQE LGLAPDMFFC LRLLEETGIC VVPGSGFGQR EGTYHFRMTI LPPLEKLRLL LEKLSRFHAK FTLEYS

Target/Specificity
GPT/ALT1

Format
Liquid

Storage
-20°C; 0.5 mg/ml solution 20 mM Tris-HCl buffer, pH 8.0, 20% glycerol and 1 mM DTT.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GPT/ALT1, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GPT/ALT1, human recombinant protein - Images

GPT/ALT1, human recombinant protein - Background

GPT, also known as alanine aminotransferases (ALT1), catalyzes the reversible transamination between alanine and 2-oxoglutarate to form pyruvate and glutamate. This protein plays a key role in the intermediary metabolism of glucose and amino acids. It is widely used as an index of liver integrity or hepatocellular damage in clinical settings. Recombinant human GPT protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

GPT/ALT1, human recombinant protein - References

Sohocki M.M.,et al.Genomics 40:247-252(1997).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Ishiguro M.,et al.Biochemistry 30:10451-10457(1991).
Funatsu M.,et al.Submitted (AUG-1996) to the EMBL/GenBank/DDBJ databases.