

Product Data Sheet

□ Cat # RP-369

Recombinant (E.coli) Human Alanine Aminotransferase

Size: □ 1 U

Alanine transaminase or ALT is a transaminase enzyme. ALT is found in serum and in various bodily tissues, but is most commonly associated with the liver; It catalyzes the transfer of an amino group from alanine to α-ketoglutarate, the products of this reversible transamination reaction being pyruvate and glutamate: alanine+ α-ketoglutarate⇌ pyruvate+ glutamate It is commonly measured clinically as a part of a diagnostic liver function test, to determine liver health. It is also called serum glutamate pyruvate transaminase (SGPT) or alanine aminotransferase (ALAT). Diagnostically, it is almost always measured in units/liter (U/L).

Source:

Alanine Aminotransferase Human Recombinant produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing having a MW of 54 kDa Dalton (>95%). Purified protein is supplied in 40mM sodium acetate buffer (pH 5.5), 1mM DTT, 1mM EDTA, 5mM 2-oxoglutarate and 0.1mM pyridoxal-5'-phosphate. Reconstitute the powder in water and store stock solutions at -20°C or below in suitable size aliquots.

Applications and Suggested Dilutions:

Positive control for Western blot, Antibody production, Protein assay. Users must optimize the appropriate concentration and conditions for each assay.

Storage and Stability:

ALT although stable at 10°C for 5 days, should be stored desiccated below -18°C. **Please prevent freeze-thaw cycles.** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

Usage:

This item is for LABORATORY RESEARCH USE ONLY.

Biological Activity: The specific activity was found to be 928 IU/mg.

Related items:

Catalog#	ProdDescription
RP-545	Recombinant (E.Coli) HIV-1 gp41 Long (466-753 a.a.)
RP-378	Recombinant (E.Coli) Disulfide Bond Isomerase
RP-1063	Human Creatine Kinase MM
RP-820	Recombinant (yeast) Hirudin
RP-488	Recombinant (E.Coli) Hepatitis C Virus (HCV) NS5 Genotype-2a
RP-379	Recombinant (E.Coli, his tag) Human Betaine-Homocysteine Methyltransferase
RP-487	Recombinant (E.Coli) Hepatitis C Virus (HCV) NS5 Genotype-2
RP-673	Recombinant (E.Coli) Human ERK2/MAPK1 Inactive Enzyme
RP-484	Recombinant (E.Coli) Hepatitis C Virus (HCV) NS4 a+b, Rhodamine Labeled
RP-368	Recombinant (E.Coli) Lactate Dehydrogenase
RP-447	Recombinant (yeast) Hepatitis B Surface Antigen Adw subtype
RP-1476	Deslorelin
RP-843	Recombinant (Sf9, his Tag) Human Centromere Protein-A
RP-672	Recombinant (E.Coli) Human ERK2/MAPK1 Active Enzyme
RP-867	Recombinant (E.Coli) Human Fatty Acid Binding Protein-5
RP-977	Recombinant purified ESAT-6 (6 kDa early secretory antigen of T cells; Mycobacterium Tuberculosis)
RP-1067	Recombinant (E.Coli) Cytomegalo Virus pP52 (UL44)
RP-1068	Recombinant (E.Coli) Cytomegalo Virus pP65(UL83)
RP-544	Recombinant (E.Coli) HIV-1 gp41 (HIV gp41 288 aa, 466-753-betal gal fusion protein)
RP-783	Recombinant (E.Coli, his tag) Human Beta-Trace
RP-782	Recombinant (E.Coli) Human Ubiquitin
RP-608	Recombinant (E.Coli, >95% his tag) Human Procalcitonin (3-116aa)
RP-700	Recombinant (insect cells) Human Vascular Endothelial Growth Factor receptor-2 Fc Chimera
RP-435	Recombinant (E.Coli, his tag) Human Beta-Site APP-Cleaving Enzyme 1
RP-813	Recombinant (E.Coli) Human Cytokeratin 19
RP-800	Recombinant (E.Coli) Human C-Reactive Protein
RP-973	Recombinant (E.Coli) Human Uroklakin-3
RP-369	rev. 140903P

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