

Recombinant human t-Plasminogen Activator/PLAT protein

Catalog Number: ATGP3486

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

24-562aa

UniProt No.

P00750

NCBI Accession No.

NP_000921

Alternative Names

Tissue-type plasminogen activator isoform 1, PLAT, T-PA, TPA

PRODUCT SPECIFICATION

Molecular Weight

61.3 kDa (545aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. 50mM MES buffer (pH 5.5) containing 40% glycerol, 5mM CaCl₂, 1mM DTT, 0.5M NaCl

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

PLAT, as known as tissue-type plasminogen activator isoform 1, is a secreted serine protease synthesized by endothelial cells. This protein is secreted as a single chain polypeptide precursor which is cleaved in turn by plasmin. Also, it plays a role clinical medicine to treat stroke in cell migration and tissue remodeling. It is implicated in normal neural function and is suggested as a regulatory molecule in neurodegenerative diseases.

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Recombinant human PLAT, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

QEIHFARFRG ARSYQVICRD EKTQMIYQQH QSWLRPVLRS NRVEYCWENS GRAQCHSVPV KSCSEPRCFN GGTCQQALYF
SDFVCQCPEG FAGKCCEIDT RATCYEDQGI SYRGTWSTAE SGAECTNWNNS SALAQKPYSR RRPDAIRLGL GNHNYCRNPD
RDSKPWCYVF KAGKYSSEFC STPACSEGNs DCYFGNGSAY RGTHSLTESG ASCLPWNSMI LIGKVYTAQN PSAQALGLGK
HNYCRNPDGD AKPWCHVLKN RRLTWEYCDV PSCSTCGLRQ YSQPFRIKG GLFADIASHP WQAAIFAKHR RSPGERFLCG
GILISSCWIL SAAHCFQERF PPHHLTVILG RTYRVVPGE E QKFEVEKYI VHKEFDDDTY DNDIALQLK SDSSRCAQES
SVVRTVCLPP ADLQLPDWTE CELSGYGKHE ALSPFYSERL KEAHVRLYPS SRCTSQHLLN RTVTDNMLCA GDTRSGGPQA
NLHDACQGDs GGPLVCLNDG RMTLVGIISW GLGCGQKDVP GVTYKVTNYL DWIRDNMMP<H HHHHH>

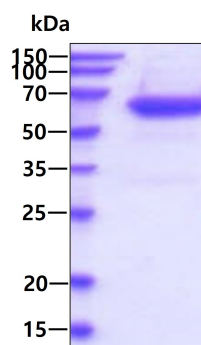
General References

Chevilley A., et al, (2015) Front Cell Neurosci. 9:415.

Lansley SM., et al, (2015) Am. J. Respir. Cell Mol. Biol. 53:105-112.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.