

Pituitary Tumor-Transforming Protein 1 Recombinant Protein | PTTG1 recombinant protein

Recombinant Human Pituitary Tumor-Transforming Protein 1

CATALOG #
AAA38682

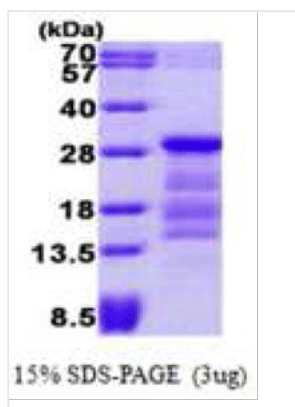
PRODUCT SYNONYMS

Pituitary Tumor-Transforming Protein 1; Recombinant Human Pituitary Tumor-Transforming Protein 1; PTTG1 Human; Pituitary Tumor-Transforming Protein 1 Human Recombinant; Securin; Pituitary tumor-transforming gene 1 protein; hPTTG; Tumor-transforming protein 1; Esp1-associated protein; PTTG1; EAP1; PTTG; TUTR1; MGC126883; MGC138276; PTTG1 recombinant protein

PRODUCT SPECIFICATIONS

Purity/Purification	Greater than 90.0% as determined by SDS-PAGE.
Form/Format	The PTTG1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 0.1M NaCl, 20% glycerol, 1mM EDTA and 0.1mM PMSF.
Concentration	1mg/ml (varies by lot)
Sequence	MGSSHHH HHHSSGLVPR GSHMAT LIYVDKENGE PGTRVVAKDQ LKLGSGPSIK ALDGRSQVST PRFGKTFDAP PALPKATRKA LGTVNRATEK SVKTKGPLKQ KQPSFSAKKM TEKTVKAKSS VPASDDAYPE IEKFFPFNPL DFESFDLP EE HQIAHLPLSG VPLMILDEER ELEKLFQLGP PSPVKMPSP WESNLLQSPS SILSTLDVEL PPVCCDIDI
Sequence Length	202
Source	Escherichia Coli.
Preparation and Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for PTTG1 recombinant protein	Description: PTTG1 Human Recombinant fused with 20 amino acid His tag at N-terminus produced in E Coli is a single, non-glycosylated, polypeptide chain containing 222 amino acids (1- 202 a.a.) and having a molecular mass of 24.1kDa. The PTTG1 is purified by proprietary chromatographic techniques. Introduction: PTTG1 (Securin) is mainly involved in the regulation of sister chromatid separation during cell division. Securin is a regulatory protein, which has a central role in chromosome stability, in the p53/TP53 pathway, and DNA repair. Additional two roles have been identified for PTTG1; the first one is to facilitate the transport of separase (cysteine protease) to the nucleus and the second role is to hinder the catalytic activity of separase. PTTG1 is ubiquitinated by the APC (Anaphase Promoting Complex), and subsequently degraded by the Proteasome, releasing separase. During the mitosis, PTTG1 blocks Separase/ESPL1 function, thus preventing the proteolysis of the cohesin complex and the ensuing segregation of the chromosomes. However, PTTG1 function is not restricted to a blocking activity only, since it is required to activate ESPL1. PTTG1 is ubiquitinated at the beginning of anaphase, leading to its destruction and to the liberation of ESPL1. PTTG1 contains two PXXP motifs, which are necessary for its transforming and tumorigenic activities, in addition to its stimulation of basic fibroblast growth factor expression. It also contains a D box (destruction box) which is essential for its degradation by the APC. The acidic C-terminal region of the Securin can function as a transactivation domain. Even though, PTTG1 is primarily a cytosolic protein, it partially localizes in the nucleus. PTTG1 is highly expressed in various tumors; it also has transforming activity in vitro and tumorigenic activity in vivo. Furthermore, PTTG1 negatively regulates the transcriptional activity and related apoptosis activity of TP53.
Product Categories/Family for PTTG1 recombinant protein	Recombinant & Natural Proteins ; Recombinant Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	538260592
NCBI GeneID	9232
NCBI Accession #	NP_001269311.1
NCBI GenBank Nucleotide #	NM_001282382.1
UniProt Accession #	O95997
NCBI Official Full Name	securin
NCBI Official Synonym Full Names	pituitary tumor-transforming 1
NCBI Official Symbol	PTTG1
NCBI Official Synonym Symbols	EAP1; PTTG; HPTTG; TUTR1
NCBI Protein Information	securin; ESP1-associated protein 1; pituitary tumor-transforming gene 1 protein; tumor-transforming protein 1
UniProt Protein Name	Securin
UniProt Gene Name	PTTG1
UniProt Synonym Gene Names	EAP1; PTTG; TUTR1; Tumor-transforming protein 1; hPTTG
UniProt Entry Name	PTTG1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/pttg1-recombinant-protein/38682>