

Recombinant Human Pituitary Tumor-transforming 1

Cat. No. PTTG1-487H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant PTTG1 protein was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 24.1 kDa (222aa).
Species	Human
Source	E.coli
Description	PTTG1, also known as Securin, is primarily involved in the regulation of sister chromatid separation during cell division. It has two identified roles; the first one is to help the transport of separase (cysteine protease) to the nucleus and the second role is to inhibit the catalytic activity of separase. It is ubiquitinated by the Anaphase Promoting Complex (APC), and then degraded by the Proteasome, releasing separase.
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MATLIYVDKE NGEPGTRVVA KDGLKLGSGP SIKALDGRSQ VSTPRFGKTF DAPPALPKAT RKALGTVNRA TEKSVKTKGP LKQKQPSFSA KKMTEKTVKA KSSVPASDDA YPEIEKFFPF NPLDFESFDL PEEHQIAHLP LSGVPLMILD EERELEKLFQ LGPPSPVKMP SPPWESNLLQ SPSSILSTLD VELPPVCCDI DI.
Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 0.1 M NaCl, 10% glycerol.
Purity	> 80% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).

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Endotoxin Level	< 0.5 EU per 1 µg of protein (determined by LAL method).
Storage	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.
GENE INFORMATION	
Gene Name	PTTG1 pituitary tumor-transforming 1 [Homo sapiens]
Synonyms	PTTG1; pituitary tumor-transforming 1; EAP1; PTTG; HPTTG; TUTR1; MGC126883; MGC138276; securing; OTTHUMP00000160845; ESP1-associated protein 1; tumor-transforming protein 1;hPTTG; Esp1-associated protein; Tumor-transforming protein 1; pituitary tumor-transforming 1
Gene ID	9232
mRNA Refseq	NM_004219
Protein Refseq	NP_004210
MIM	604147
UniProt ID	O95997
Chromosome Location	5q35.1
Pathway	Cell cycle; Cell Cycle, Mito
Function	SH3 domain binding; cysteine-type endopeptidase inhibitor activity; protein binding; transcription factor activity