

## Product datasheet for **AR09247PU-N**

### Securin / PTTG1 (1-202, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Securin / PTTG1 (1-202, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH SSGLVPRGSH</u> MATLIYVDKE NGEPGTRVA KDGLKLGSGP SIKALDGRSQ VSTPRFGKTF DAPPALPKAT RKALGTVNRA TEKSVKTKGP LKQKQPSFSA KKMTEKTVKA KSSVPASDDA YPEIEKFFPF NPLDFESFDL PEEHQIAHLP LSGVPLMILD EERELEKLFQ LGPPSPVKMP SPPWESNLLQ SPSSILSTLD VELPPVCCDI DI
Tag:	His-tag
Predicted MW:	24.1 kDa
Concentration:	lot specific
Purity:	>80% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.1 M NaCl, 20% glycerol, 1 mM EDTA, 0.1 mM PMSF
Endotoxin:	< 0.5 EU per 1 µg of protein (determined by LAL method )
Preparation:	Liquid purified protein
Protein Description:	Recombinant PTTG1 protein, fused to His-tag, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_001269311</u>
Locus ID:	9232
UniProt ID:	<u>O95997, Q6IAL9</u>
Cytogenetics:	5q33.3



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**Synonyms:** EAP1; HPTTG; PTTG; TUTR1

**Summary:** The encoded protein is a homolog of yeast securin proteins, which prevent separins from promoting sister chromatid separation. It is an anaphase-promoting complex (APC) substrate that associates with a separin until activation of the APC. The gene product has transforming activity in vitro and tumorigenic activity in vivo, and the gene is highly expressed in various tumors. The gene product contains 2 PXXP motifs, which are required for its transforming and tumorigenic activities, as well as for its stimulation of basic fibroblast growth factor expression. It also contains a destruction box (D box) that is required for its degradation by the APC. The acidic C-terminal region of the encoded protein can act as a transactivation domain. The gene product is mainly a cytosolic protein, although it partially localizes in the nucleus. Three transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Sep 2013]

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Cell cycle, Oocyte meiosis

### Product images:

