

**AR50592PU-S****Human ASPRV1 / SASP (191-326, His-tag) - Purified****Alternate names:**

Retroviral-like aspartic protease 1, SASPase, Skin aspartic protease, Skin-specific retroviral-like aspartic protease, TAPS, TPA-inducible aspartic proteinase-like protein

**Quantity:**

0.1 mg

**Concentration:**

0.25 mg/ml (determined by Bradford assay)

**Background:**

ASPRV1, also known as MUNO, SASP and ASAPase, is a protein that contains 1 peptidase A2 domain. This protein is expressed primarily in the granular layer of the epidermis and inner root sheath of hair follicles and localized to membrane region. This protein undergoes autocleavage which is necessary for activation of the protein.

**Uniprot ID:**

[Q53RT3](#)

**NCBI:**

[NP\\_690005](#)

**GeneID:**

[151516](#)

**Species:**

Human

**Source:**

E. coli

**Format:**

**State:** Liquid purified protein

**Purity:** >90% by SDS - PAGE

**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

**Description:**

Recombinant Human ASPRV1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**AA Sequence:**

MGSSHHHHHH SSGLVPRGSH MGSSMGKGYG LKKGKIGKVPV RFLVDSGAQV SVVHPNLWEE  
VTDGDLDTLQ PFENVVKVAN GAEMKILGVW DTAVSLGKLG LKAQFLVANA SAEAEIIGTD  
VLQDHNAILD FEHRTCTLKG KFRLLPVG G SLEDEFDLE

**Molecular weight:** 17.2 kDa (159aa) confirmed by MALDI-TOF

**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

**General Readings:**

1. Matsui T, Miyamoto K, Kubo A, Kawasaki H, Ebihara T, Hata K, et al. SASPase regulates stratum corneum hydration through profilaggrin-to-filaggrin processing. *EMBO Mol Med.* 2011 Jun;3(6):320-33. doi: 10.1002/emmm.201100140. Epub 2011 May 3. PubMed PMID: 21542132.
2. Rhiemeier V, Breitenbach U, Richter KH, Gebhardt C, Vogt I, Hartenstein B, et al. A novel aspartic proteinase-like gene expressed in stratified epithelia and squamous cell carcinoma of the skin. *Am J Pathol.* 2006 Apr;168(4):1354-64. PubMed PMID: 16565508.

Pictures:

