

# Recombinant Human adaptor-related protein complex 3, sigma 1 subunit, His-tagged

**Cat. No.** AP3S1-364H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	AP3S1, 1-193aa, Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-193 a.a.
<b>Description</b>	AP-3 complex subunit sigma-1, also known as AP3S1, is a Part of the AP-3 complex, an adapter-related complex which is not clathrin-associated. The complex is associated with the Golgi region as well as more peripheral structures. It facilitates the budding of vesicles from the Golgi membrane and may be directly involved in trafficking to lysosomes. Recombinant human AP3S1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
<b>Molecular Mass</b>	23.8 kDa (213aa) confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MIKAILIFNN HGKPRLSKFY QPYSED TQQQ IIRETFHLVS KRDENVCNFL EGLLIGGSD NKLIYRHYAT LYFVFCVDSS ESELGILDLI QVFVETLDKC FENVCELDLI FHVDKVHNIL AEMVMGGMVL

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ETNMNEIVTQ IDAQNKLEKS EAGLAGAPAR AVSAVKNMNL PEIPRNINIG  
DISIKVPNLP SFK

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

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 1 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [AP3S1 adaptor-related protein complex 3, sigma 1 subunit \[ Homo sapiens \]](#)

**Official Symbol** AP3S1

**Synonyms** AP3S1; adaptor-related protein complex 3, sigma 1 subunit; CLAPS3; AP-3 complex subunit sigma-1; sigma3A-adaptin; sigma-3A-adaptin; sigma-adaptin 3a; AP-3 complex sigma-3A subunit; AP-3 complex subunit sigma-3A; adapter-related protein complex 3 sigma-1 subunit; clathrin-associated/assembly/adaptor protein, small 3; clathrin-associated/assembly/adaptor protein, small 3 (22kD); Sigma3A;

**Gene ID** [1176](#)

**mRNA Refseq** [NM\\_001284](#)

**Protein Refseq** [NP\\_001275](#)

**MIM** [601507](#)

**UniProt ID** [Q92572](#)

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<b>Chromosome Location</b>	5q22
<b>Pathway</b>	Clathrin derived vesicle budding, organism-specific biosystem; Golgi Associated Vesicle Biogenesis, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Membrane Trafficking, organism-specific biosystem; trans-Golgi Network Vesicle Budding, organism-specific biosystem;
<b>Function</b>	protein binding; protein transporter activity; transporter activity;

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