

Product Name: S5A

Alternate Names: 26S proteasome non-ATPase regulatory subunit 4; PSMD4; 26S proteasome regulatory subunit RPN10; 26S proteasome regulatory subunit S5A; Antisecretory factor 1 (AF; ASF); Multiubiquitin chain-binding protein

Product Code: TAP-073

FOR RESEARCH USE ONLY (RUO)**Verified Applications / Usage**

S5a is ubiquitylated *in vitro* by many E3 ligases, so can be used as a potential initial substrate for identifying new E3 ligases. Appropriate enzyme concentrations are specific to the application.

Physical Characteristics

Species: Human

Predicted MW (kDa): 45 kDa

Source: *E. coli* BL21(DE3) A.I.

Purity: 95 %

Tag: N-Twin-Strep-3C

Formulation: 40 mM HEPES, 100 mM NaCl, 10% Glycerol, 1 mM EDTA, 1 mM TCEP, pH 7.6

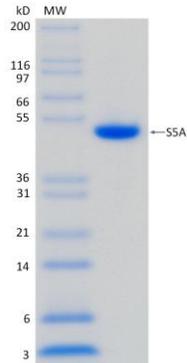
Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Stability/Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store $\leq -70^{\circ}\text{C}$ (stable for 24 months from date of receipt).

Quality Assurance

Purity & SDS-PAGE

Protein ID: S5A



2 µg S5A run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Activity Assay

Background

Description

26S proteasome non-ATPase regulatory subunit 4 (S5a, RPN10) is a component of the 19S proteasome, and a receptor for polyubiquitin and shuttle factors. S5a is ubiquitylated *in vitro* by many E3 ligases. Recombinant human RPN10 contains an N-terminal Twin-Strep-3C tag.

Accession Number: P55036

Entrez Gene ID: PSMD4

Protein Sequence

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MWSHPQFEKGGGSGGGSGGSAWSHPQFEKGSLEVLFGQPGSMVLESTMVCVDNSEYMRNGDFL
PTRLQAQQDAVNIVCHSKTRSNPENNVGLITLANDCEVLTTLPDTPDTRILSKLHTVQPKGKIT
FCTGIRVAHLALKHRQGNHMKMRIIAFVGS PVEDNEKDLVKLAKRLKKEKVNVDIINFGEDEV
NTEKLTAFVNTLNGKDGTGSHLVTVPPGPSLADALISSPILAGEGGAMLGLGASDFEFGVDPS
ADPELALALRVSMEEQRQRQEEEEARRAAAASAAEAGIATTGTEDSDDALLKMTISQQEFGRTG
LPDLSSMTEEEQIAYAMQMSLQGAIEFGQAESADIDASSAMDTSEPAKEEDDYDVMQDPEFLQS
VLENLPGVDPNNEAIRNAMGSLASQATKDGKDKKKEEDKK
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