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YB91971Hu01

Protein S (PROS)

Organism: Homo sapiens (Human)

Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

5th Edition (Revised in January, 2013)

[DESCRIPTION]

Human PROS1 kDa



Protein Names: Protein S

Synonyms: PROS, PROS1

Species: Human

Size: 100 μ g

Source: *Escherichia coli*-derived

Subcellular Location: Secreted.

[PROPERTIES]



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Residues: Tyr301~Leu476 (Accession # P07225),
with N-terminal His-Tag.

Grade & Purity: >95%, 22kDa as determined by
SDS-PAGE reducing conditions.

Formulation: Supplied as lyophilized form in PBS, pH
7.4, containing 0.01% Sarcosyl, 5% sucrose.

15% SDS-PAGE

Endotoxin Level: <1.0 EU per 1 μ g (determined by
the LAL method).

Applications: SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)

Predicted Molecular Mass: 21.4 kDa

Predicted isoelectric point: 6.6



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[**PREPARATION**]

Reconstitute in sterile PBS, pH7.2-pH7.4.

[**STORAGE AND STABILITY**]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

[**SEQUENCES**]

The target protein is fused with N-terminal His-Tag, its sequence is listed below.

MGHHHHHSGSEF-YLAEQFAGVV LYLKFR LPEI SRFSAEFD FR TYDSEGVILY
AESIDHSAWL LIALRGGKIE VQLKNEHTSK ITGGDVINN GLWNMVSVEE LEHSISIKIA
KEAVMDINKP GPLFKPENGL LETKVYFAGF PRKVESELIK PINPRLDGCI RSWNLMKQGA
SGIKEIIQEK QNKHCL

[**REFERENCES**]

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2. Dienava-Verdood I., *et al.* (2012) *Thromb. Haemost.* 107:468-476.
3. Mulder R., *et al.* (2012) *Thromb. Haemost.* 107:594-596.
4. Duebgen S., *et al.* (2012) *Am. J. Clin. Pathol.* 137:178-184.