

## Native Human Proteasome 20S Protein, Tag Free

**Cat. No.** Proteasome 20S-37H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified from human blood cells by fractination. The highest activity, soluble and homogenous.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | Blood cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | The 20S proteasome is the catalytic core of the 26S proteasome, the central protease of the ubiquitin pathway of protein degradation. Unlike the 26S proteasome, which degrades proteins in an ATP-dependent manner, the 20S proteasome is ATP-independent and only degrades entirely unfolded polypeptides.                                                                                                                                                                                                                                                                                               |
| <b>Tag</b>              | Non                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Stability</b>        | <p>The Proteasome 20S purified in our lab without aggregates is ideal for Cryo-EM (Cryogenic electron microscopy), for example as conducted in the study of Jason E. Gestwicki.</p> <p>20S Proteasome remains relatively stable and active so long as repetitive freeze-thaw cycles are avoided.</p> <p>It has been demonstrated that 20S proteasome undergoes only slow loss of activity when stored at 4 centigrade for up to six months.</p> <p>If it is to be used on a regular basis, it is recommended that the material should be stored between 0 to -4 centigrade during the duration of use.</p> |

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For longer term storage the material may be dispensed as single use aliquots and stored at -80 centigrade.

**Handling**

Avoid freeze/thaw cycles.

**Storage**

At -80 centigrade

**Concentration**

1.0 mg/mL

**Storage Buffer**

In 20mM TRIS-HCl, pH 7.2, containing 1mM EDTA, 1mM DTT, 1mM sodium azide and 50 % glycerol.

**Shipping**

Dry ice

**GENE INFORMATION****Official Symbol**

Proteasome 20s

**Synonyms**

Proteasome 20S; 20S

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