

RP10189TLQ

Leader in Biomolecular Solutions for Life Science

26S proteasome

Catalog No.: RP10189TLQ

Sequence Information

Species	Gene ID	Swiss Prot
Bovine		

Tags

No Tag

Synonyms

26S proteasome

Product Information

Source

Bovine red blood cells

Purification

At least 90% by native-PAGE

Endotoxin

Formulation

20 mM Tris, 40 mM NaCl, 2 mM β ME, 2 mM ATP, 5 mM MgCl₂, 10% Glycerol (pH 7.6)

Reconstitution

Background

The 26S proteasome is an approximately 2.5 mDa large complex composed of the 20S proteasome and the 19S regulatory particle (also called PA700 in mammals). The 20S proteasome has 28 subunits that form a barrel – shaped structure arranged as four heptameric ring of $\alpha\beta\beta\alpha$. Three β subunits have peptidase activities that hydrolyze proteins. Either one or both ends of the 20S proteasome can associate with PA700 to form the 26S proteasome. PA700 contains 19 different proteins that have the ability to bind, deubiquitinate and unfold polyubiquitinated proteins with the consumption of ATP hydrolysis. The 26S proteasome degrades polyubiquitinated proteins, which plays essential roles in regulating various cellular events including protein quality control, gene transcription and signal transduction.

Basic Information

Description

Bio-Activity

Storage

This product is stable at $\leq -70^{\circ}\text{C}$ for up to 6 months from the date of receipt.

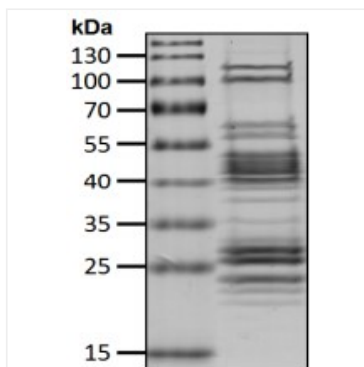
For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.
Avoid repeated freeze/thaw cycles.

Contact

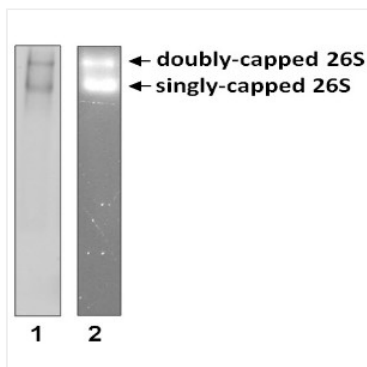


www.abclonal.com

Validation Data



26S proteasome was determined by SDS-PAGE with Coomassie Blue.



3 μ g purified bovine 26S proteasome was resolved by 4% native-PAGE. The protein was visualized by Coomassie-staining (lane 1); or the proteasome activity was determined by an overlay assay using Suc-LLVY-AMC as the substrate (lane 2).