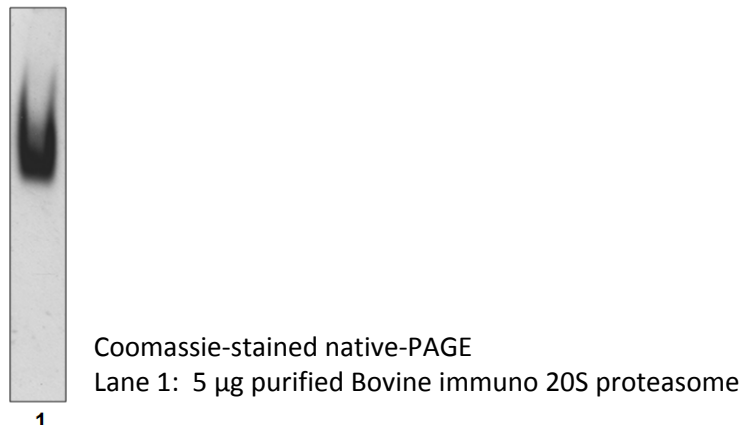
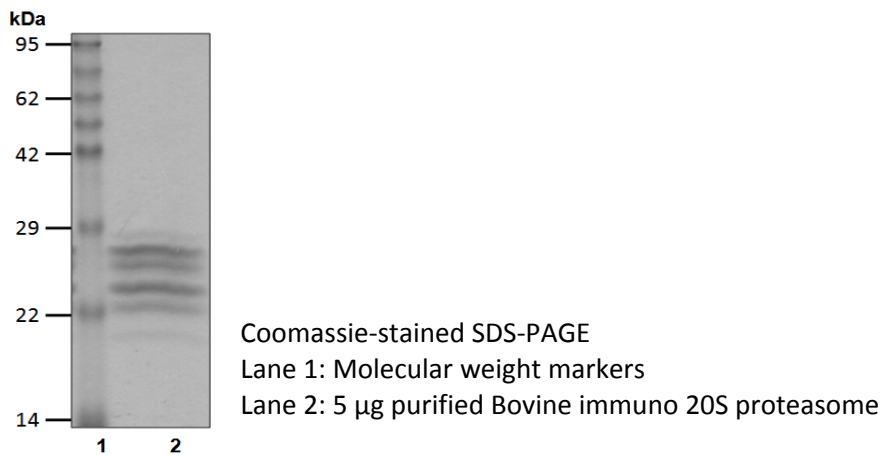


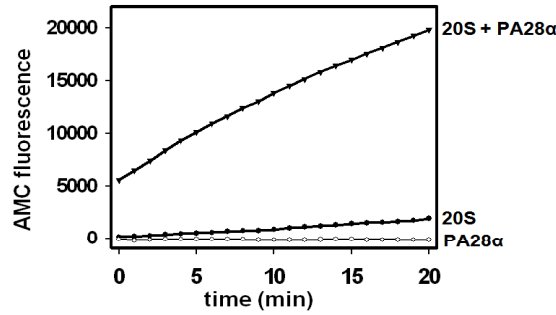
Bovine immuno 20S proteasome

Cat. # A1500, A1501

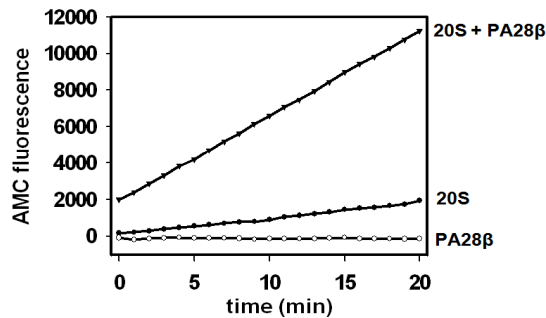
Also Known as: Immuno 20S proteasome
NCBI Reference: N/A
MW (no tag): 700 kDa
Species: Bovine
Source: Bovine red blood cells
Tag: No
Stock Buffer: 20 mM Tris, 20 mM NaCl, 1 mM EDTA, 5 mM β ME, 10% Glycerol
Concentration: See tube label
Quality Assurance: ~95% by native-PAGE

Image

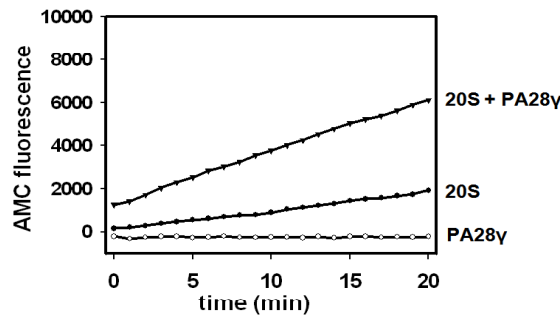




Activation of 5 nM immuno 20S proteasome (Cat. # A1500) by 25 nM PA28 α (Cat. # A2100), the proteasome activity was assayed by using 50 μ M Suc-LLVY-AMC (Cat. # G1100) as the substrate. The AMC fluorescence was monitored by a plate reader with excitation and emission filters of 360 \pm 40 nm and 460 \pm 30 nm, respectively.



Activation of 5 nM immuno 20S proteasome (Cat. # A1500) by 25 nM PA28 β (Cat. # A2200), the proteasome activity was assayed by using 50 μ M Suc-LLVY-AMC (Cat. # G1100) as the substrate. The AMC fluorescence was monitored by a plate reader with excitation and emission filters of 360 \pm 40 nm and 460 \pm 30 nm, respectively.



Activation of 5 nM immuno 20S proteasome (Cat. # A1500) by 25 nM PA28 γ (Cat. # A2300), the proteasome activity was assayed by using 50 μ M Suc-LLVY-AMC (Cat. # G1100) as the substrate. The AMC fluorescence was monitored by a plate reader with excitation and emission filters of 360 \pm 40 nm and 460 \pm 30 nm, respectively.

Description:

Upon stimulation with IFN – γ , the expression of the three catalytic β subunits β 1, β 2, and β 5 with iso-forms β 1i (LMP2), β 2i (MECL – 1), and β 5i (LMP7) are induced, respectively. These subunits are incorporated into the 20S proteasome to form the immune 20S proteasome. It was reported that the immunoproteasome has altered proteolytic activities compared to its normal form, which favor the generation of immunopeptides for antigen presentation.

Storage:

Store at -80°C; avoid multiple freeze-thaw cycles

Note:

N/A

Literature:

1. Goldberg AL, *et al.* (1992) Nature 357(6377), 375 – 379.
2. Aki M, *et al.* (1994) J Biochem 115(2), 257 – 269.
3. Tanaka K (1994) J Leukoc Biol 56(5), 571 – 575.
4. Zaiss DM, *et al.* (2011) J Immunol 187(5), 2302 – 2309.

