Proteasome 20S assay kit

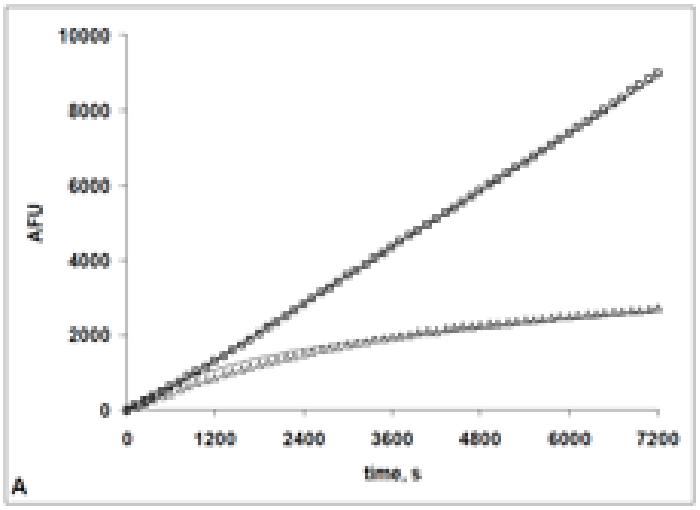
A QUANTIZYME® Assay System. Fluorogenic, non-radioactive assay designed to measure chymotrypsin-like protease activity of purified 20S proteasome. This 96-well assay is useful for screening inhibitors and modulators of the 20S proteasome. The kit includes purified, human erythrocyte 20S proteasome (20µg). The Suc-LLVY-AMC fluorogenic peptide substrate supplied with this kit is a proteasome substrate commonly used for measuring chymotrypsin-like peptidase activity. The detection of proteolytic activity is based on the release of free AMC fluorophore and offers the following advantages: non-radioactive, convenient real-time kinetics of substrate cleavage, and excellent sensitivity. A proteasome inhibitor, epoxomicin, is included as a test inhibitor for screening purposes.

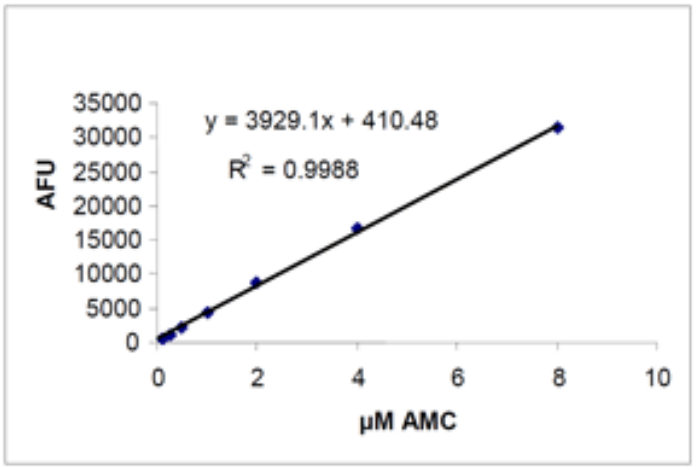
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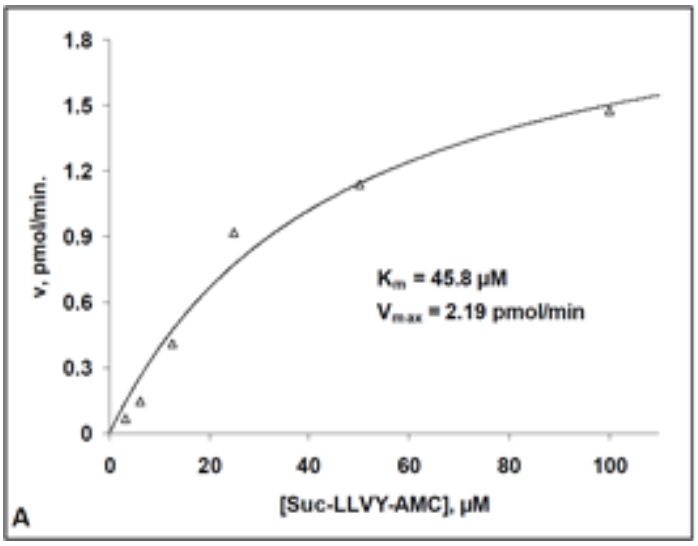
Ordering Information Order Online »

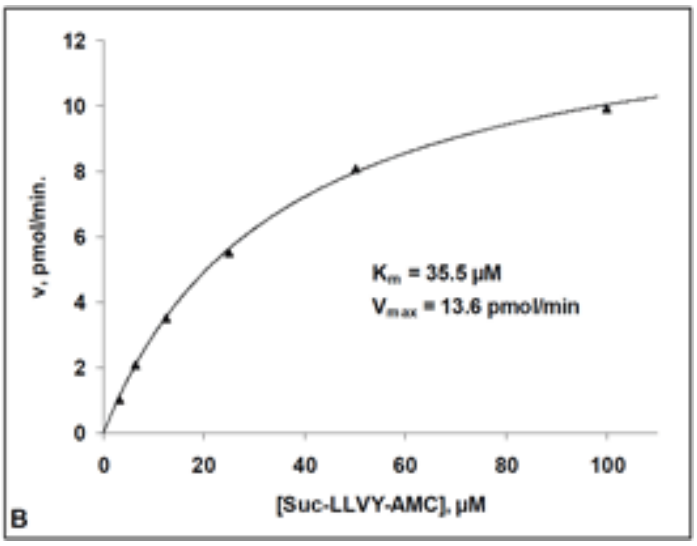
BML-AK740-0001	96 wells

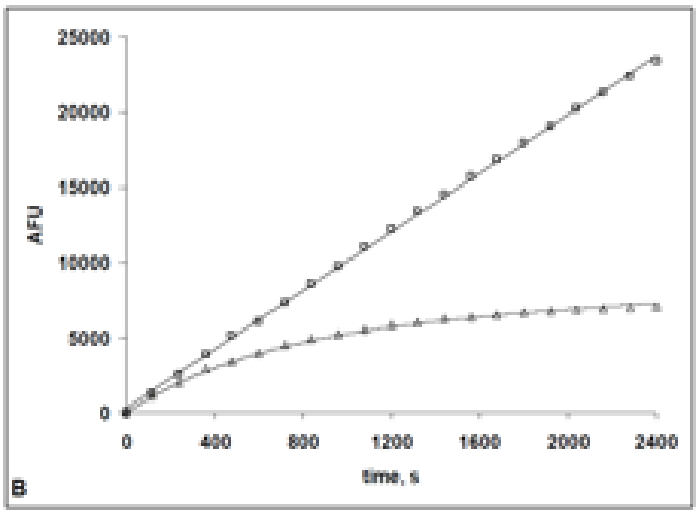
Manuals, SDS & CofA View Online »

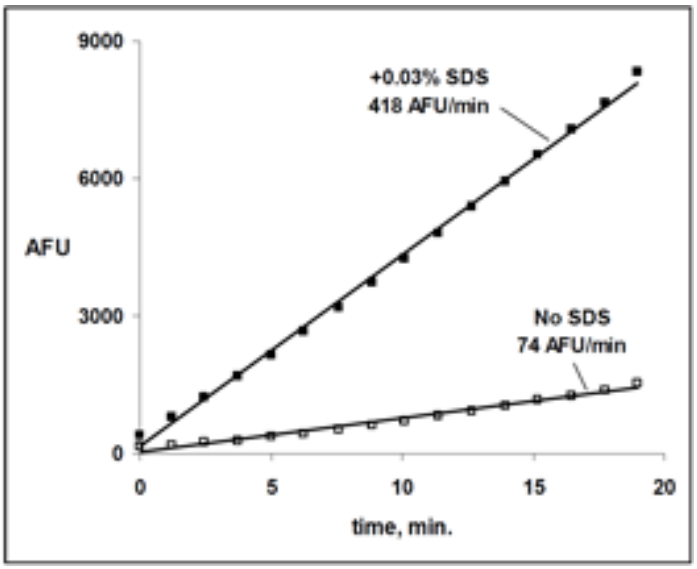

AFU
time, s
A


y = 3929.1x + 410.48
R2 = 0.9988
AFU
µM AMC


v, pmol/min.
Km = 45.8 µM
Vmax = 2.19 pmol/min
[Suc-LLVY-AMC], µM
A


v, pmol/min.
Km = 35.5 µM
Vmax = 13.6 pmol/min
[Suc-LLVY-AMC], µM
B


AFU
time, s
B


+0.03% SDS
418 AFU/min
No SDS
74 AFU/min
AFU
time, min.

Handling & Storage

Handling	Do not store at temperature below recommended storage condition.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Application	Activity assay, Fluorescent detection, HTS
Contents	Proteasome 20S (human) (purified) (Prod. No. BML-PW8720) Suc-Leu-Leu-Val-Tyr-AMC (Prod. No. BML-P802) Proteasome Assay Buffer (Prod. No. BML-KI340) Sodium Dodecyl Sulfate (Prod. No. BML-KI341) Epoxomicin (Prod. No. BML-PI127) AMC (7-Amino-4-methylcoumarin) Calibration Standard (Prod. No. BML-KI144) 1/2 Volume White Microplates (Prod. No. BML-KI571)

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