

Recombinant Human PA28G Protein, His-tagged

Cat. No. PA28G-307H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PA28G Protein is produced by Bacteria expression system. This protein is fused with a His tag.
Species	Human
Source	E.coli
Description	PA28 (also called the 11S regulatory complex) is another activator of the 20S proteasome, which assembles on either one or both ends of the 20S proteasome in an ATP-independent manner. PA28 can greatly enhance the peptidase activities of the 20S proteasome, but not for degradation of ubiquitinated proteins. The PA28 activator is a complex of two alternating homologous subunits, PA28 α and PA28 β , which assembles as a hexameric ring with an $\alpha 3\beta 3$ stoichiometry. PA28 α and PA28 β are induced by interferon. Functionally, PA28 enhances the generation of class I peptides for antigen presentation. The third subunit, PA28 γ , was recently identified in the nucleus. Recombinant PA28 α and PA28 β form a heptomeric ring; whereas PA28 γ forms a hexameric ring. All of them can stimulate the peptidase activities of the 20S proteasome.
Form	20 mM Tris, 150 mM NaCl, 2 mM β ME, 10% Glycerol
Molecular Mass	29.5 kDa
Purity	> 95 % by SDS-PAGE

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Storage Store at -80 centigrade; avoid multiple freeze-thaw cycles.

GENE INFORMATION

Gene Name PSME3 proteasome activator subunit 3 (Homo sapiens (human))

Official Symbol PSME3

Synonyms PSME3; Ki; REG-GAMMA; PA28-gamma; PA28gamma; PA28 gamma

Gene ID 10197

mRNA Refseq NM_176863

Protein Refseq NP_789839

UniProt ID P61289

PA28G-307H, 1

Coomassie-stained SDS-PAGE
Lane 1: Molecular weight markers
Lane 2: 5 µg purified 6xHis-PA28gamma

PA28G-307H, 2

Activation of 5 nM 20S proteasome by 25 nM PA28γ, the proteasome activity was assayed by using 50 µM Suc-LLVY-AMC as the substrate. The AMC fluorescence was monitored by a plate reader with excitation and emission filters of 360±40 nm and 460±30 nm, respectively.

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