Recombinant Human 19S Proteasome
Cat. # E-366

The 19S Proteasome, also known as PA700, is a multi-subunit regulatory particle that associates with the 20S Proteasome core particle to form the 26S Proteasome. The 19S Proteasome can cap the 20S Proteasome at one or both ends and regulate substrate access to proteolytic activity in an ATP-dependent manner by modulating the conformation of the 20S Proteasome and facilitating substrate access to the 20S Proteasome catalytic core (1-3). The 19S Proteasome recognizes ubiquitinated proteins as well as non-ubiquitinated, misfolded proteins. It catalyzes substrate deubiquination, unfolds substrate proteins, and threads them into the 20S Proteasome catalytic core (4,5). The 19S Proteasome consists of a base subcomplex and a lid subcomplex. The base subcomplex is composed of six AAA+ family members, two scaffolding proteins, and regulatory proteins involved in Ubiquitin recognition (6,7). The 19S Proteasome lid subcomplex contains eight subunits and one deubiquitinating enzyme, Rpn11 (6,7). Although inhibitors targeting the 19S Proteasome regulatory particle have been developed, they are under-utilized in comparison with proteasome inhibitors targeting the 20S Proteasome core particle (8).

This highly purified 19S Proteasome preparation (from the transformed HEK cell line) can be used in vitro for the activation of the 20S Proteasome, as well as for deubiquitination of target substrates via Rpn11.

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### Use & Storage

**Use:** Bioassay data are not available.

**Storage:** Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -70 °C as supplied.
- 3 months, -70 °C under sterile conditions after opening.

### Literature

**References:**


*For research use only. Not for use in humans.*