

Temperature sensitive Protease-V24

Catalogue number: 160830

Sub-type:

Images:

Contributor

Inventor:

Institute: The University of Victoria

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Temperature sensitive Protease-V24

Alternate name: V24

Class:

Conjugate:

Description: This novel temperature sensitive protease, a variant of subtilisin Carlsberg (SubC) protease, is expressed in *Bacillus subtilis*. Variant 24 (V24) have been shown to be capable of degrading a broad range of proteins in their native or denatured state. V24 has an inactivation profile that allows protease digestion at 40°C and inactivation at 50°C. All activity is destroyed after 10 minutes of incubation at 50°C (See Figure above). This variant has proven valuable in working with fragile specimen in which minimal heat treatment is desired. Due to the unique properties of V24 it has also been shown to improve molecular biology research, automated processes like Next-Gen Sequencing and disease diagnostics workflows. No column purification or treatment at extreme temperatures are required to completely deactivate this variant. This protease remains active in the presence of detergent such as SDS and Triton X-100.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes: Canadian Patent Application No. 3028612 US Patent No. 10894954

Target details

Target:

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:

Application notes:

Handling

Format:

Concentration:

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions: Activity remains stable over several months when the protease is stored at 4° C or lower. When stored at -80° C the protease remains stable for up to two years.

Shipping conditions:

Related tools

Related tools: Temperature sensitive Protease-V25

References

References: Mock et al. 2021. J Med Chem. 64(1):481-515. PMID: 33382264.

CancerTools.org