

## Product Datasheet

### Protease S. aureus (orb420132)

## Description

Protease S. aureus

### Conjugation

Unconjugated

### Target

sspA

### Preservatives

Preservative: None. Stabilizer: None. None

### Form/Appearance

Lyophilized

### Concentration

1 mg/mL

### Storage

Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

### Note

For research use only

### Application notes

Protease S. aureus has shown that one unit causes a change of 0.001 A280 nm per minute at 37° C at pH 7.8 using casein as a substrate. Specific conditions for reactivity should be optimized by end user.

### Purity

Protease S. aureus V8 (Endoproteinase-Glu-C) specifically cleaves peptide bonds on the COOH-terminal side of either aspartic or glutamic acids. In the presence of ammonium, the enzyme specificity is limited to glutamic sites. It has a molecular weight of 27,000 daltons and optimum pH's of 4.0 and 7.8 with hemoglobin as the substrate. Protease S. aureus V8 is inhibited by diisopropylfluorophosphate and monovalent anions such as F<sup>-</sup>, Cl<sup>-</sup>, CH<sub>3</sub>COO<sup>-</sup> and NO<sub>3</sub><sup>-</sup>. Enzyme activity is determined by the casein digestion assay.

### Uniprot ID

**P0C1U8**

### NCBI

**1280**

### Hazard Information

Non-Toxic

### Expiration Date

12 months from date of receipt.