

PRODUCT INFORMATION

Auresine®

1mg/ml 1 mg (lyophilizate) 200 mg (lyophilizate)

Recombinant¹, from *Pichia pastoris*Store at room temperature (lyophilizate)
or at +4°C (in Storage Buffer)
EC 3.4.24.75

CAS NR: 2106847-48-5 Molecular mass: 14.4 kDa

pH optimum 7-9

Product description

Auresine is a *Staphylococcus aureus* zinc metalloprotease. The enzyme has glycylglycine endopeptidase activity and it specifically cleaves polyglycine crosslinks in the cellular wall of *Staphylococcus* species, including *Staphylococcus aureus*, which leads to cell lysis.

Specific activity: 500 units/mg protein

Unit definition: One unit will reduce the turbidity (A_{600}) of suspension of *S. aureus* cells from 0.250 to 0.125 in 10 minutes in 50 mM glycine, pH 8.0 at 25°C in 6.0 mL reaction mixture.

Applications

- Surface disinfection (active substance in bacteriostatic and bactericidal formulations against staphylococcal strains).
- Laboratory use (component of kits for isolation of protoplasts, nucleic acids, proteins, lipids and other components of Gram positive bacterial cells.
 Thanks to the unique activity in nonphysiological conditions (low

conductivity and low temperatures) the isolated components, like nucleic acids and proteins are not prone to degradation by released cellular enzymes).

Preparation Instructions

Auresine in soluble in water (20 mg/ml), yielding a clear solution. The product is active in 100 nM concentration (1.4 ug/mL) in low conductivity buffers (\leq 2 mS/cm) at temp. 0-40°C.

Storage/Stability

Lyophilized powder should be stored at room temperature. Once dissolved in storage buffer, Auresine is stable at room temperature up to 4 months, at 4°C, -20°C, -80°C up to 2 years.

Deactivation

All activity of 100 nM enzyme is abolished by incubation with 1 μ M EDTA for 5 minutes at room temperature.

Storage buffer:

20 mM Tris-HCl, pH 7.0, 200 mM NaCl, 10% glycerol.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household or other uses.

References

Jagielska E et al. (2016) Microb Drug Resist Sep 22(6):461-9.

Grabowska M et al. (2015) Sci Rep. Oct 6;5:14833.

Sabala I et al. (2014) FEBS J. Sep;281(18):4112-22.

Sabala I et al. (2012) BMC Microbiol. Jun 6;12:97.

¹European Patent No. 2699254



Odintsov SG et al. (2004) J Mol Biol. Jan 16;335(3):775-85

Auresine specificity

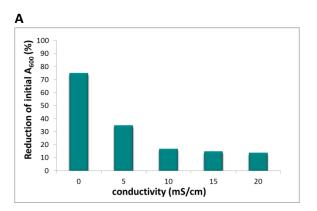
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Escherichia coli - Proteus vulgaris -	Salmonella enterica subsp. enterica	-
Proteus vulgaris -	Klebsiella pneumoniae	-
	Escherichia coli	=
Bacillus subtilis -	Proteus vulgaris	-
	Bacillus subtilis	-

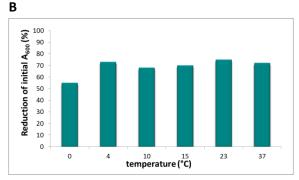
Auresine activity was measured in turbidity reduction assay. Bacterial cells were suspended to an apparent OD_{600} of 1.0 in 50 mM glycine, pH 8.0. The test was performed at room temperature in 1h with 100 nM Auresine.

The number of + indicates the % of reduction of initial OD_{600} :

- 0-25%
- + 25-50%
- ++ 50-75%
- +++ 75-100%.

Auresine activity in various conductivity (A) and temperatures (B) conditions.





Turbidity reduction assay was performed in 50 mM glycine, pH 8.0, at room temperature in 1h with Staphylococcus cells suspension at initial $OD_{600} = 1.0$ and 100 nM Auresine.