

RPPB2412

Product Information Protein Information

Product SKU:

RPPB2412

Host:

Escherichia Coli.

Protein description:

The mutant Urease from microorganism source, showing shifted substrate affinity to urea. It was designed wildtype coding gene from microorganism. The subunit structure is very similar to well known microbial urease. Please refer to published literature such as JBC 262, 5963-67 (1987). It is composed of multi-subunits and shows a bit complex protein structure (alpha 2 Beta 4 Gamma 4) as compared to plant urease rUrease is genetically designed unique mutant having shifted high Km to urea, which is suited material to kinetic urea assay with wide measurable range. The enzyme comprises of three different subunits to make complete fully active form, 60.3 kD a subunit, 11.7 kD b subunit and 11.1 kD g subunit respectively.

Appearance:

Sterile Lyophilized Powder.

Formulation:

Each mg of protein contains 420µg Potassium Phosphate and 30µg EDTA Na₂.

Purity:

Greater than 95.0% as determined by SDS-PAGE.

Solubility:

It is recommended to reconstitute the lyophilized Urease in sterile 18MΩ-cm H₂O.

Stability:

Urease although stable at 4°C for 3 weeks, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.

Biological Activity:

The activity was found to be 141U/mg powder.