

GUSB Protein, E. coli, Recombinant (His)

General Information

Synonyms:	uidA; β -glucuronidase;Beta-glucuronidase;GUS
Protein Construction:	Met1-Gln603
Species:	E. coli
Expression Host:	E. coli
Accession:	P05804
Molecular Weight:	72 KDa (reducing condition)
AA Sequence:	Met1-Gln603

QC Testing

Biological Activity:	Measured by its ability to hydrolyze the substrate Phenolphthalein Glucuronide to Phenolphthalein and D-glucuronic acid. The specific activity is 19,660,754 U/g.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Supplied as a 0.2 μ m filtered solution of PBS, pH 7.4.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Beta-D-glucuronidase from E.coli is a highly specific enzyme in hydrolyzing glucuronides. Beta-D-glucuronidase (GLUase) activity can be measured as the rate of production of fluorescent methylumbelliferone (MU), resulting from the hydrolysis of the substrate 4-methylumbelliferyl- β -d-glucuronide (MUGLU), which is an effective and rapid method for detection and verification of E. coli in food, water, and environmental samples. High purity recombinant beta-Glucuronidase is used in research, biochemical enzyme assays and in vitro diagnostic analysis, detecting a wide range of drugs such as opioids, benzodiazepines, steroids, cannabinoids, and others.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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