



Recombinant Protein Technical Manual
Recombinant E. coli Beta-Glucuronidase/Uida/Beta-Gus Protein (His Tag)
RPES3473

Product Data:

Product SKU: RPES3473

Size: 10µg

Species: E. coli

Expression host: E. coli

Uniprot: P05804

Protein Information:

Molecular Mass: 69.9 kDa

AP Molecular Mass: 72 kDa

Tag: N-His

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Beta-glucuronidase;uidA;GUS

Immunogen Information:

Sequence: Met1-Gln603

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.