

Recombinant *E.coli* GUSB

Catalog No: CH85

Description	Recombinant <i>E.coli</i> beta-Glucuronidase is produced by our <i>E.coli</i> expression system and the target gene encoding Met1-Gln603 is expressed with a 6His tag at the N-terminus. One unit will liberate 1.0 μ g of phenolphthalein from phenolphthalein glucuronide per hour at 37°C at pH 6.8.
Source	<i>E. coli</i>
Alternative name	Beta-glucuronidase, uidA, GUS
Accession No.	P05804
Formulation	Supplied as a 0.2 μ m filtered solution of PBS, pH7.4.
Quality Control	Purity: Greater than 90% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/ μ g (1 IEU/ μ g) as determined by LAL test.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Storage	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.

Amino Acid Sequence

MNHKVHHHHHMLRPVETPTREIKKLDGLWAFSLDRENCGIDQRWWESALQESRAIAPGSFNDQFA
DADIRNYAGNVWYQREVFIKPGWAGQRIVLRFDAVTHYGKVVVNNQEVMEHQGGYTPFEADVTPYVI
AGKSVRITVCVNNELNWQTIPPGMVIDENGKKKQSYFHDFFNYAGIHRSVMLYTTPTNTWDDITVVTH
VAQDCNHASVDWQVVANGDVSVELRDADQQVVATGQGTSGTLQVVNPHLWQPGEGYLYELCVTAKS
QTECDIYPLRVGIRSVAVKGEQFLINHKPFYFTGFGRHEDADLRGKGFNDVLMVHDHALMDWIGANSY
RTSHYPYAEEMLDWADEHGIVVIDETAAVGFNLSLGIGFEAGNPKPKELYSEEAVNGETQQAHLQAIKELI
ARDKNHPSVVMWSIANEPDTRPQGAREYFAPLAEATRKLDPTRPITCVNVMFCDAHTDTISDLFDVLCL
NRYYGWYVQSGDLETAEKVLEKELLAWQEKLHQPIITEYGVDTLAGLHSMYTDMMWSEYQCAWLDMY
HRVFDRVSAVVGEEQVWNFADFATSQGILRVGGNKKGIFTRDRPKSA AFLQKRW TGMNFGKEKPQQG
GKQ

Background

Recombinant β -Glucuronidase from *E. coli* has been used for the enzymatic hydrolysis of β -glucuronides in urine and other fluids. It has also been used to characterize the adhesion of fungal cells via cell surface glycoproteins. It does not hydrolyze α -glucuronides or β -glucosides. The recombinant enzyme from *E. coli* has a high rate of hydrolytic activity and it is essentially free of sulfatase activity.

SDS-Page

