

## Product datasheet

# Native E. coli beta Galactosidase protein ab78141

★★★★★ [1 Abreviews](#) [1 References](#)

### Description

<b>Product name</b>	Native E. coli beta Galactosidase protein
<b>Biological activity</b>	Does not react with human serum.
<b>Purity</b>	> 95 % SDS-PAGE.
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<b><u>P00722</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Native
<b>Species</b>	Escherichia coli
<b>Predicted molecular weight</b>	114 kDa
<b>Amino acids</b>	2 to 1024

### Specifications

Our **Abpromise guarantee** covers the use of **ab78141** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE
<b>Form</b>	Liquid
<b>Additional notes</b>	Does not react with human serum.

### Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. Constituents: 48% Urea, 0.078% Beta mercaptoethanol, 0.316% Tris HCl
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### General Info

<b>Relevance</b>	Beta galactosidase is coded by a gene (lac z) in the lac operon of Escherichia coli. It is a metalloenzyme that splits lactose into glucose and galactose. It hydrolyzes terminal, non-reducing
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beta-D-galactose residues in beta-D-galactosides. Activation by cations seems to be substrate dependent. K<sup>+</sup>, Na<sup>+</sup>, NH<sub>4</sub><sup>+</sup>, Rb<sup>+</sup>, Cs<sup>+</sup> and Mn<sup>++</sup> all activate enzyme activity based upon the substrate used.

**Cellular localization**

Cytoplasmic

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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