

lacZ

Native Beta-Galactosidase Active

Catalog No.	CSI13550	Quantity:	1000 U
Alternate Names:	Beta-galactosidase, Beta-gal, Lactase		
Description:	Beta Galactosidase full length protein - B-galactosidase, also called beta-gal or B-gal, is a hydrolase enzyme that catalyzes the hydrolysis of B-galactosides into monosaccharides. Substrates of different Beta-galactosidases include ganglioside GM1, lactosylceramides, lactose, and various glycoproteins. Lactase is often confused as an alternative name for B-galactosidase, but it is actually simply a sub-class of B-galactosidase.		
UniProt ID:	P00722		
Source:	<i>E. coli</i>		
Molecular Weight:	465 kDa, tetramer (116.3 kDa each)		
Formulation:	Lyophilized from 10 mM Tris HCl, 10 mM magnesium chloride, 1 mM β -mercaptoethanol		
Purity:	~80% protein (Biuret)		
Biological Activity:	> 500 Units/mg solid at pH 7.3 and 37°C, lot specific		
Reconstitution:	Centrifuge vial prior to opening. Reconstitute with 50 mM TrisHCl, pH 7.3, 5-10 mM β -mercaptoethanol and 10 mM magnesium chloride.		
Storage & Stability:	Store lyophilized protein at -20°C to -80°C. Stable for at least 1 year. Avoid repeated freeze/thaw cycles.		

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