

## Galectin-8/LGALS8 Protein, Human, Recombinant (GST)

### General Information

Synonyms:	Gal-8;Prostate carcinoma tumor antigen 1 (PCTA-1);Galectin-8;LGALS8;Po66 carbohydrate-binding protein (Po66-CBP)
Protein Construction:	1-317 aa
Species:	Human
Expression Host:	E. coli
Accession:	O00214
Molecular Weight:	62.8 kDa (predicted)
AA Sequence:	MMLSLNNLQNIINYNPVIFVGTIPDQLDPGTLIVIRGHVPSDADRQVDLQNGSSMKPRADVAHFHFNPRFKRA GCIVCNTLINEKWGREEITYDTPFKREKSFEIVIMVLKDKFQVAVNGKHTLLYGHRIGPEKIDTLGIYGKVNHSIG FSFSDLQSTQASSLELTEISRENVPKSGTPQLRPLPFAARLNTPMGPGRTVVVKGEVNANAKSFNVDLLAGKS KDIALHLNPRLNKAFVRNSFLQESWGEEERNITSPFPSPGMYFEMIIYCDVREFKAVAVNGVHSLEYKHRFKELS SIDTLEINGDIHLLEVRWS

### QC Testing

Biological Activity:	Measured by its binding ability in a functional ELISA. Immobilized SLC31A1 at 5 µg/mL can bind human LGALS8, the EC50 of human LGALS8 is 373.90-524.30 µg/mL.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### 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:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Beta-galactoside-binding lectin that acts as a sensor of membrane damage caused by infection and restricts the proliferation of infecting pathogens by targeting them for autophagy. Detects membrane rupture by binding beta-

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galactoside ligands located on the luminal side of the endosome membrane; these ligands becoming exposed to the cytoplasm following rupture. Restricts infection by initiating autophagy via interaction with CALCOCO2/NDP52. Required to restrict infection of bacterial invasion such as *S.typhimurium*. Also required to restrict infection of Picornaviridae viruses. Has a marked preference for 3'-O-sialylated and 3'-O-sulfated glycans.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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