Recombinant Human Galectin-7/LGALS7 Protein

Catalog Number: PKSH032475

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

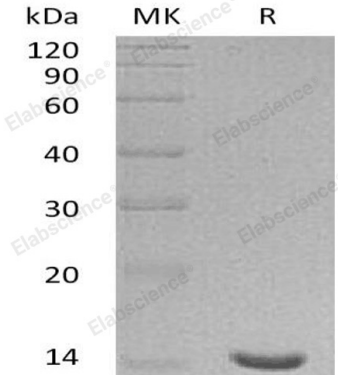
Description

Species	Human
Source	E.coli-derived Human Galectin-7;LGALS7 protein Met 1-Phe136
Calculated MW	15.07 kDa
Observed MW	14 kDa
Accession	P47929
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, 1mM EDTA, 5% Trehalose, pH 8.0. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

The Galectin family of proteins; with specificity for Nacetyllactosamine containing glycoproteins; consists of beta-galactoside binding lectins containing homologous carbohydrate recognition domains (CRDs).They also possess hemagglutination activity; which is attributable to their bivalent carbohydrate binding properties. Galectins are active both intracellularly and extracellularly. Although they are localized primarily in the cytoplasm and lack a classical signal peptide; they can be secreted by one or more as yet unidentified non-classical secretory pathways. They have diverse effects on many cellular functions including adhesion; migration; polarity; chemotaxis; proliferation; apoptosis; and differentiation. Galectins may play a key role in many pathological states; including autoimmune diseases; allergic reactions; inflammation; tumor cell metastasis; atherosclerosis; and diabetic complications.

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