



Recombinant Protein Technical Manual

**Recombinant Human Galectin-7/LGALS7 Protein
(Active)**
RPES4675

Product Data:

Product SKU: RPES4675

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P47929

Protein Information:

Molecular Mass: 14.9 kDa

AP Molecular Mass: 14 kDa

Tag:

Bio-activity: Measured by its ability to agglutinate human red blood cells.

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C 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 PB, 150mM NaCl, pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Galectin-7; Gal-7; HKL4; PI7; p53-Induced Gene 1 Protein; LGALS7; PIG1; LGALS7B

Immunogen Information:

Sequence: Met 1-Phe136

Background:

The Galectin family of proteins, with specificity for N-acetyllactosamine 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.