

## Galectin-7/LGALS7 Protein, Human

<b>Cat. No.:</b>	HY-P70358
<b>Synonyms:</b>	rHuGalectin-7; Galectin-7; Gal-7; HKL-14; PI7; p53-Induced Gene 1 Protein; LGALS7; PIG1; LGALS7B
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P47929 (M1-F136)
<b>Gene ID:</b>	3963/653499
<b>Molecular Weight:</b>	Approximately 14.0 kDa

### PROPERTIES

<b>AA Sequence</b>	<p> MSNVPHKSSL    PEGIRPGTVL    RIRGLVPPNA    SRFHVNLLCG  EEQGSDAALH    FNPRLDTSEV    VFNSKEQGSW    GREERGGVP  FQRGQPFEVL    IIASDDGFKA    VVGDAQYHHF    RHRLPLARVR  LVEVGGDVQL    DSVRIF </p>
<b>Biological Activity</b>	Measured in a cell proliferation assay using SH-SY5Y cells. The ED <sub>50</sub> for this effect is 0.2176 µg/mL, corresponding to a specific activity is 4.596×10 <sup>3</sup> units/mg.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 150 mM NaCl, 1 mM EDTA, 5% Trehalose, pH 8.0 or 50 mM Tris-HCL, 300 mM NaCl, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>Galectin-7, also known as LGALS7, is a protein potentially involved in critical cell-cell and/or cell-matrix interactions essential for normal growth control. Functioning as a pro-apoptotic protein, Galectin-7 operates intracellularly upstream of JNK activation and cytochrome c release, suggesting its role in apoptotic pathways. It exists as a monomer, and its involvement in cellular interactions and apoptotic processes underscores its significance in regulating cell growth and survival. Understanding the functions of Galectin-7 provides valuable insights into the intricate molecular mechanisms</p>
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governing normal cellular processes and apoptotic signaling.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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