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# 32-1228: LGALS7 His Recombinant Protein

**Alternative Name :** Galectin-7,Gal-7,HKL-14,PI7,p53-induced gene 1 protein,LGALS7,PIG1,LGALS7B,GAL7,LGALS7A.

## Description

Source : Escherichia Coli. Galectin-7 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 156 amino acids (1-136 a.a.) and having a molecular mass of 17.2kDa. The Galectin-7 is purified by proprietary chromatographic techniques. Galectins are a family of animal lectins with an affinity for beta-galactosides. This family has at least 14 identified members. Galectins share similarities in the CRD (the carbohydrate recognition domain). Galectins are synthesized as cytosolic proteins. Though localized principally in the cytoplasm and lacking a classical signal peptide, galectins can also be stimulated to secretion by non-classical pathways or alternatively targeted to the nucleus. Galectins are involved in modulating cell-cell and cell-matrix interactions. Human Galectin-7 belongs to the prototypical Galectins containing a single CRD, which is initially identified in human epidermis as a monomer. The Galectin-7 expression is induced by tumor suppressor protein p53 and associated with apoptosis. Galectin-7 is a pro-apoptotic protein which functions intracellularlly upstream of JNK activation and mitochondrial cytochrome c release. The correlation of Galectin-7 with the UV-induced apoptosis of keratinocytes presents a critical mechanism in the maintenance of epidermal homeostasis. Human Galectin-7 is localized in both nucleus and cytoplasm.

## Product Info

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| **Amount :** | 20 µg |
| **Purification :** | Greater than 95.0% as determined by SDS-PAGE. |
| **Content :** | The Galectin-7 solution (1 mg/ml) 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 1mM DTT. |
| **Storage condition :** | Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles. |
| **Amino Acid :** | MGSSHHHHHH SSGLVPRGSH MSNVPHKSSL PEGIRPGTVL RIRGLVPPNA SRFHVNLLCG EEQGSDAALH FNPRLDTSEV VFNSKEQGSW GREERGPGVP FQRGQPFEVL IIASDDGFKA VVGDAQYHHF RHRLPLARVR LVEVGGDVQL DSVRIF. |

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