

## Product datasheet for TP728212L

### Recombinant Galectin-1, Human

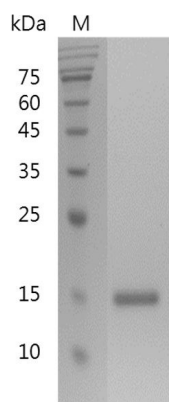
#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Recombinant Galectin-1, Human   |
| Species:                              | Human   |
| Expression Host:                      | E. coli   |
| Expression cDNA Clone or AA Sequence: | ACGLVASNLNLKPGECRLVRGEVAPDAKSFVLNLGKDSNNLCLHFNPRFNAHGDANTIVCNSKDGGAW GTEQREAVFPFQPGSVAEVCITFDQANLTVKLPDGYEFKFPNRLNLEAINYMAADGDFKIKCVAFD with polyhistidine tag at the N-terminus.   |
| Tag:                                  | His Tag (N-term)  |
| Predicted MW:                         | The protein has a calculated MW of 15.5 kDa. The protein migrates as 15 kDa under reducing condition (SDS-PAGE analysis).   |
| Purity:                               | >98% as determined by SDS-PAGE.   |
| Buffer:                               | The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 7.4.  |
| Bioactivity:                          | Measured by its ability to agglutinate human red blood cells. The ED <sub>50</sub> for this effect is <2 µg/mL.   |
| Endotoxin:                            | <0.1 EU per 1 µg of the protein by the LAL method.  |
| Reconstitution Method:                | Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein. |
| Applications:                         | Cell culture  |
| Storage:                              | Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.                        |
| UniProt ID:                           | <a href="#">P09382</a>  |
| Synonyms:                             | Beta-galactoside-binding lectin L-14-I, Galaptin, 14 kDa lectin, S-LAC lectin-1   |


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**Summary:**

Galectin-1 (Gal-1) is a lectin family member. Galectin-1 contains one carbohydrate recognition domain (CRD), responsible for  $\beta$ -galactoside binding, and is biologically active as homodimers. Several binding partners for galectin-1 have been identified, including CD45, CD43, CD69, pre-BCR, and vascular endothelial Growth Factors R2. Galectin-1 is constitutively presented in the immune system and other tissues, contributing to cell growth, proliferation, and apoptosis. The galectin-1 plays a central role in regulating acute and chronic inflammatory responses.

**Product images:**


SDS- PAGE analysis of recombinant human Galectin-1