

## **Flogen<sup>®</sup> Recombinant Flagellin, His (rFlagellin, His)**

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| <b>Catalog Number:</b>      | PGR0603-001  |
| <b>Source:</b>              | <i>Escherichia coli</i> .  |
| <b>Molecular Weight:</b>    | Approximately 14.6 kDa, a single non-glycosylated polypeptide chain containing 134 amino acids.  |
| <b>Quantity:</b>            | 10µg/50µg/1000µg   |
| <b>AA Sequence:</b>         | ACGLVASNLN LKPGECLRVR GEVAPDAKSF VLNLGKDSNN<br>LCLHFNPRFN AHGDANTIVC NSKDGGAWGT EQREAVFPFQ<br>PGSVAEVCIT FDQANLTVKL PDGYEFKFPN RLNLEAINYM<br>AADGDFKIKC VAFD   |
| <b>Purity:</b>              | > 95 % by SDS-PAGE and HPLC analyses.  |
| <b>Biological Activity:</b> | Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human blood monocytes is in a concentration range of 1.0-10 ng/ml.  |
| <b>Appearance:</b>          | Sterile Filtered White lyophilized (freeze-dried) powder.  |
| <b>Formulation:</b>         | Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4, with 1 mM DTT.  |
| <b>Endotoxin:</b>           | Less than 0.1 EU/µg of rHuGalectin-1, His as determined by LAL method.   |
| <b>Reconstitution:</b>      | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions. |
| <b>Storage:</b>             | This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.                     |
| <b>Usage:</b>               | This material is for research, laboratory or further evaluation purposes.<br><b>NOT FOR HUMAN USE.</b>   |

### ***Human Galectin-1***

Human Galectin-1 also named BHL, Galaptin, GBP, L-14 and LGALS1, is belonging to the galectins family and it is encoded by the LGALS1 gene in human. Galectin-1 is expressed by the endometrial stromal cells throughout the menstrual cycle. Galectin-1 contains a single carbohydrate recognition domain through which it can bind glycans both as a monomer and as a homodimer. Dimers are non-covalently bound and will spontaneously disassociate in low concentration. Galectin-1 may act as an autocrine negative growth factor that regulates cell proliferation. Galectin-1 is thought to play a role in the immunosuppression required for a successful pregnancy. Human Galectin-1 shares 88 %-90 % amino acid sequence identity with rat and mouse.