

# Active Galectin 8 (GAL8) Instruction Manual

## SBPA113Bo01

**Bos taurus; Bovine (Cattle)**

**Buffer Formulation**

20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

**Traits**

Freeze-dried powder

**Purity**

> 90%

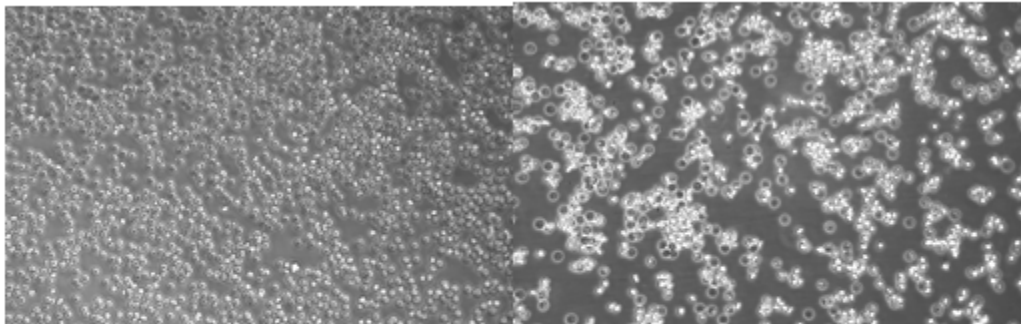
**Isoelectric Point**

9.0

**Applications**

Cell culture; Activity Assays.

### ACTIVITY TEST



**Figure 1. The hemagglutination of recombinant Cattle GAL8**

(A) Rabbit erythrocyte reacted with no GAL8 for 3h;

(B) Rabbit erythrocyte reacted with 50ug/ml GAL8 for 3h.

Galectin 8 (GAL8), also known as prostate carcinoma tumor antigen 1 (PCTA1) in human, is a tandem repeat-type galectin. is a member of the lectin family, of which 14 mammalian galectins have been identified. It is also a member of the beta-galactoside-binding protein family that plays an important role in cell-cell adhesion, cell-matrix interactions, macrophage activation, angiogenesis, metastasis, apoptosis. In this case, we chose rabbit erythrocyte (RaE) to assay its ability of agglutination. A general procedure for hemagglutination assay (or haemagglutination assay; HA) is as follows, two-fold dilute the recombinant Bovine GAL8 with 0.9% sodium chloride injection, add 50 $\mu$ L a serial dilution of GAL8 to each well of a U or V-bottom shaped 96-well microtiter plate. The final well serves as a negative control with no GAL8, replace with 50 $\mu$ L 0.9% sodium chloride injection. Then add 50 $\mu$ L 1% rabbit erythrocyte to each well and mixed gently. The plate is incubated for 3 hours at room temperature. The results are shown in

Figure 1. It was obvious that the minimal effective concentration of GAL8 is 0.781  $\mu\text{g}/\text{mL}$ .

## **USAGE**

Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## **STORAGE**

Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.

## **STABILITY**

The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

## **Image**

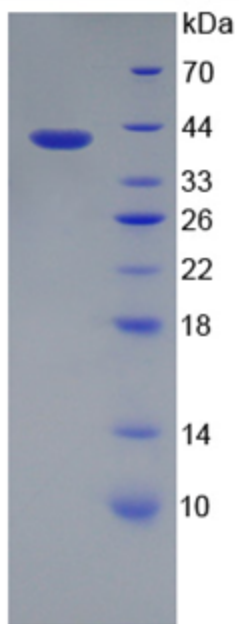


Figure. SDS-PAGE

**[IMPORTANT NOTE]**

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.