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Product Datasheet

Rat Galectin 3 protein, His tag (active), Unconjugated GTX00361-PRO

Article Name	Rat Galectin 3 protein, His tag (active), Unconjugated
Biozol Catalog Number	GTX00361-PRO
Supplier Catalog Number	GTX00361-pro
Alternative Catalog Number	GTX00361-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Rat
Conjugation	Unconjugated
NCBI	83781
UniProt	P08699
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	Full length protein, N-terminal His-Tag, Met1~Ile262 (NP_114020.1)

Application Notes	Galectin 3 (GAL3) 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. The protein also has been demonstrated to be involved in cancer, inflammation and fibrosis, heart disease, and stroke. GAL3 is expressed in the nucleus, cytoplasm, mitochondrion, cell surface, and extracellular space. It also can agglutinate red blood. In this case, we choose rabbit erythrocyte (RaE) to assay its ability of agglutination. A general procedure for hemagglutination assay (HA) is as follows, two-fold dilute the recombinant rat GAL3 with 0.01M PBS (pH 7.4), add 50 μl a serial dilution of GAL3 to each well of a U or V-bottom shaped 96-well microtiter plate. The final well serves as a negative control with no GAL3, replace with 50 μl 0.01M PBS. Then add 50 μl 1% RaE to each well and mixed gently. The plate is incubated for 1-2 hours at room temperature. The minimal effective concentration of GAL3 is 2.5 μg/ml.
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