Recombinant Mouse Galectin-7 Protein(Gst Tag)

Catalog Number: PDEM100164

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

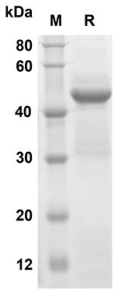
Description

Species	Mouse
Source	E.coli-derived Mouse Galectin-7 protein Met1-Phe136, with an N-terminal Gst
Calculated MW	40.8 kDa
Observed MW	45 kDa
Accession	O54974
Bio-activity	Not validated for activity

Properties

Purity	> 90% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Mouse Galectin-7 proteins, 2 μg/lane of Recombinant Mouse Galectin-7 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 45 KD

Background

LGALS7, also known as Galectin-7, is a member of the galectins family. The galectins are a family of beta-galactoside-binding proteins. There are at least 14 identified members of this family. Galectins share similarities in the CRD (the carbohydrate recognition domain). They 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 targeted to the nucleus. Galectins are implicated in modulating cell-cell and cell-matrix interactions. LGALS7 contains 1 galectin domain and is mainly expressed in stratified squamous epithelium. Galectin-7 could be involved in cell-cell and/or cell-matrix interactions necessary for normal growth control. LGALS7 is a pro-apoptotic protein that functions intracellularly upstream of JNK activation and cytochrome c release.