9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

LGALS7 Human

Galectin-7 Human Recombinant
GRF0240

Product Overview

Name	LGALS7 Human
Description	
Galectin-7 Human Recombinant	
Accession (Primary)	P47929
Synonyms	
Galectin-7, Gal-7, HKL-14, PI7, p53-induced gene 1 protein, LGALS7, PIG1, LGALS7B, GAL7, LGALS7A.	
Introduction	
Galectins are a family of animal lectins with an affinity for beta-galactosides. This family has at least 14 identified members. Galectins share similarities in the CRD (the carbohydrate recognition domain). Galectins 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 alternatively targeted to the nucleus. Galectins are involved in modulating cell-cell and cell-matrix interactions. Human Galectin-7 belongs to the prototypical Galectins containing a single CRD, which is initially identified in human epidermis as a monomer. The Galectin-7 expression is induced by tumor suppressor protein p53 and associated with apoptosis. Galectin-7 is a pro-apoptotic protein which functions intracellularlly upstream of JNK activation and mitochondrial cytochrome c release. The correlation of Galectin-7 with the UV-induced apoptosis of keratinocytes presents a critical mechanism in the maintenance of epidermal homeostasis. Human Galectin-7 is localized in both nucleus and cytoplasm.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
LGALS7 was lyophilized from a concentrated (1mg/ml) solution in 20mM Tris, 150mM NaCl, 1mM EDTA and 5% Trehalose, pH 8.	
Stability	
Lyophilized LGALS7 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Galectin-7 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.	

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Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence

MSNVPHKSSLPEGIRPGTVLRIRGLVPPNASRFHVNLLCGEEQGSDAALHFNP

RLDTSEVVFNSKEQGSWGREERGPGVPFQRGQPFEVLIIASDDGFKAVVGDAQ

YHHFRHRLPLARVRLVEVGGDVQLDSVRIF

Solubility

It is recommended to reconstitute the lyophilized Galectin-7 in sterile distilled H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

LGALS7 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P47929)