Galectin-14/LGALS14 Protein, Human (HEK293, His)

Cat. No.:	HY-P70159
Synonyms:	rHuPlacental protein 13-like/LGALS14, His; Placental Protein 13-Like; Charcot-Leyden Crystal Protein 2; CLC2; Galectin-14; Gal-14; LGALS14; PPL13
Species:	Human
Source:	HEK293
Accession:	AAH22257.1 (M1-D139)
Gene ID:	56891
Molecular Weight:	Approximately 16.0 kDa

PROPERTIES

AA Sequence	M S S L P V P Y T L P V S L P V G S C V I I T G T P I L T F V K D P Q L E V N F Y T G M D E D S D I A F Q F R L H F G H P A I M N S C V F G I W R Y E E K C Y Y L P F E D G K P F E L C I Y V R H K E Y K V M V N G Q R I Y N F A H R F P P A S V K M L Q V F R D I S L T R V L I S D
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris, 100 mM NaCl, 1 mM DTT, 20% glycerol, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	PPL13/LGALS14 belongs to the placenta-specific protein family and are proteins secreted by the placenta into the maternal circulation. Human placenta-specific galectin is primarily expressed by the syncytiotrophoblast, the primary site of metabolic exchange. Early in pregnancy, the fetus comes into contact with immune cells circulating in the maternal blood. In ex vivo functional assays, placenta-specific galectin was found to induce T lymphocyte apoptosis, so galectin may reduce the risk of maternal immune attack on fetal semi-allografts and may confer additional immune tolerance. Mechanisms that maintain the hemorrhagic placenta during long gestations in humanoid primates. However, these proteins are reduced along with abnormal placenta before the onset of intrauterine growth restriction (IUGR) or preeclampsia (PE). PPL13 is highly expressed in pregnancies complicated by PE and IUGR. The PPL13 protein binds β-galactoside and lactose and is a strong inducer of T cell apoptosis.

Caution: Product has not been fully validated for medical applications. For research use only.

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