

AR52003PU-S**Mouse LGALS3 (1-264, His-tag) - Purified****Alternate names:**

CBP35, GAL3, GALBP, GALIG, LGALS2, Lectin, MAC2, galactose binding, soluble 3

Quantity:

10 µg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

LGALS3, also known as galectin 3, is a member of the family of animal lectins, which selectively binds beta-galactoside residues. This protein is secreted from cells by ectocytosis, which is independent of the classical secretory pathway through the endoplasmic reticulum/Golgi network. LGALS3 has been associated with the inhibition of apoptosis and the progression of cancer. It is normally distributed in epithelia of many organs, in various inflammatory cells, including macrophages, as well as dendritic cells and Kupffer cells. The expression of this lectin is up-regulated during inflammation, cell proliferation, cell differentiation and through trans-activation by viral proteins. Recombinant mouse LGALS3 protein, used to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Uniprot ID:[Q8C253](#)**NCBI:**[NP_034835](#)**GenEID:**[16854](#)**Species:**

Mouse

Source:

E. coli

Format:**State:** Liquid purified protein**Purity:** >95% by SDS - PAGE**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 50% glycerol, 1mM DTT, 2mM EDTA.**Description:****AA Sequence:**

MGSSHHHHHH SGLVPRGSH MGSMAFSLSL NDALAGSGNP NPQGYPGAWG NQPGAGGYPG
AAYPGAYPGQ APPGAYPGQA PPGAYPGQAP PSAYPGPTAP GAYPGPTAPG AYPGSTAPGA
FPGQPGAPGA YPSAPGGYPA AGPYGVPAGP LTVPYDLPLP GGVMRMLIT IMGTVKPNAN
RIVLDFRRGN DVAHFHNPFR NENRRRVIVC NTKQDNNWGK EERQSAFPFE SGKPFKIQVL
VEADHFQVAV NDAHLLQYNH RMKNLREISQ LGISGDITLT SANHAMI

Specific Activity: The ED50 for this effect is equal or higher than 25 µg/ml. Measured by its ability to agglutinate human red blood cells.**Molecular weight:** 29.8 kDa (287aa) confirmed by MALDI-TOF**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Barondes SH., et al. (1994) J Biol Chem. 269(33):20807-10. Kadrofske MM., et al. (1998) Arch Biochem Biophys. 349(1):7-20.

Pictures:

