



# Recombinant Rat Bone marrow proteoglycan (Prg2)

<b>Product Code</b>	CSB-EP714114RA
<b>Abbreviation</b>	Prg2
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q63189
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	LHLS SEASDSKSPL VDESLPREAE ISRPEVEESP PGEQLMSLEE EEEEEEEEEGS GSEGALGNEG AVSGQDVTDE NLQSPKEEDT TSLMGDSGFK TGRYLLVRRP ECFNKAQLVC RSCYRGTLAS IHSFSVNFRI QSFVRGINQG QVWIGGRIVG WGRCKRFRWI DGSSWNFAYW AAGQPRRGGG RCVTLCTRGG HWRRSGCGKR RPFICAY
<b>Source</b>	E.coli
<b>Target Names</b>	Prg2
<b>Protein Names</b>	Recommended name: Bone marrow proteoglycan Short name= BMPG Alternative name(s): Proteoglycan 2 Cleaved into the following chain: 1. Eosinophil granule major basic protein Short name= 2. EMBP Short name= 3. MBP
<b>Expression Region</b>	17-227
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This protein is the predominant constituent of the crystalline core of the eosinophil granule. High levels of the proform of this protein are also present in placenta and pregnancy serum, where it exists as a complex with several other proteins including pregnancy-associated plasma protein A (PAPPA), angiotensinogen (AGT), and C3dg. This protein may be involved in antiparasitic defense mechanisms as a cytotoxin and helminthotoxin, and in immune hypersensitivity reactions. It is directly implicated in epithelial cell damage, exfoliation, and bronchospasm in allergic diseases.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final



concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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