

Recombinant Human PRG2, His-tagged

Cat. No. PRG2-44H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Human Bone Marrow Proteoglycan/BMPG is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Leu17-Tyr222) of Human PRG2 fused with a 6His tag at the C-terminus.

Species Human

Source HEK293

ProteinLength 17-222 a.a.

Description Bone Marrow Proteoglycan (BMPG) is a secreted protein that contains one C-type lectin domain. BMPG is the predominant constituent of the crystalline core of the eosinophil granule. BMPG is highly expressed in placenta and pregnancy serum. BMPG may be involved in antiparasitic defense mechanisms as a cytotoxin and helminthotoxin. BMPG induces non-cytolytic histamine release from human basophils. In addition, BMPG also participated in antiparasitic defense mechanisms and immune hypersensitivity reactions.

AA Sequence LHLRSETSTFETPLGAKTLPEDEETPEQEMEETPCRELEEEEEWGSSEDASKKDG
AVESISVPD MVDKNLTCPEEEDTVKVVGIPGCQTCRYLLVRSLSQAWFTCRRC
YRGNLVSIIHNFNINYRIQ CSVSALNQQQVWIGGRITGSGRCRRFQWVDGSRWNFA
YWAAHQPSRGGHCVALCTRGGYWRRRAH CLRRLPFICSYVDHHHHHH

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

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Purity Greater than 95% as determined by reducing SDS-PAGE.

GENE INFORMATION

Gene Name PRG2 proteoglycan 2, bone marrow (natural killer cell activator, eosinophil granule major basic protein) [Homo sapiens]

Official Symbol PRG2

Synonyms PRG2; proteoglycan 2, bone marrow (natural killer cell activator, eosinophil granule major basic protein); bone marrow proteoglycan; BMPG; MBP; bone-marrow proteoglycan; proteoglycan 2 preproprotein; natural killer cell activator; eosinophil major basic protein; eosinophil granule major basic protein; MBP1; MGC14537;

Gene ID [5553](#)

mRNA Refseq [NM_001243245](#)

Protein Refseq [NP_001230174](#)

MIM [605601](#)

UniProt ID [P13727](#)

Chromosome Location 11q12

Pathway Asthma, organism-specific biosystem; Asthma, conserved biosystem;

Function binding; heparin binding; sugar binding;

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