Recombinant Human PRG3, His-tagged

Cat. No. PRG3-812H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Proteoglycan 3/PRG3 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Leu18-Phe225) of Human PRG3 fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
Description	Proteoglycan 3, also known as Eosinophil major basic protein homolog, Prepro-major basic protein homolog, PRG3 and MBPH, contains one C-type lectin domain. Proteoglycans are a major component of the animal extracellular matrix. PRG3 localizes to the eosinophil secondary granule and is expressed in bone marrow, not detected in placenta. PRG3 has similar cytotoxic and cytostimulatory activities to PRG2/MBP. In vitro, PRG3 can stimulate neutrophil superoxide production and IL8 release, histamine and leukotriene C4 release from basophils.
Form	Lyophilized from a 0.2 μm filtered solution of 20mM PBS, 150mM NaCl, pH 7.2
AA Sequence	LHLENDAPHLESLETQADLGQDLDSSKEQERDLALTEEVIQAEGEEVKASACQDNFE DEEAMESD PAALDKDFQCPREEDIVEVQGSPRCKTCRYLLVRTPKTFAEAQNVCS RCYGGNLVSIHDFNFNYR IQCCTSTVNQAQVWIGGNLRGWFLWKRFCWTDGSHW NFAYWSPGQPGNGQGSCVALCTKGGYWRR AQCDKQLPFVCSFVDHHHHHH
Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).

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Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Storage	Lyophilized protein should be stored at < -20ºC, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7ºCfor 2-7 days. Aliquots of reconstituted samples are stable at < -20ºC for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name	PRG3 proteoglycan 3 [Homo sapiens (human)]
Official Symbol	PRG3
Synonyms	PRG3; proteoglycan 3; MBP2; MBPH; eosinophil major basic protein homolog; prepro-MBPH; prepro-major basic protein homolog
Gene ID	10394
mRNA Refseq	NM_006093
Protein Refseq	NP_006084
MIM	606814
UniProt ID	Q9Y2Y8
Chromosome	11q12

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Location	
Function	carbohydrate binding

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