

Recombinant human LYG2 protein

Catalog Number: ATGP1749

PRODUCT INFORMATION

Expression system

E.coli

Domain

20-212aa

UniProt No.

Q86SG7

NCBI Accession No.

NP_783862

Alternative Names

lysozyme G-like 2, LYGH

PRODUCT SPECIFICATION

Molecular Weight

23.9 kDa (216aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 20% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

LYG2, also as known as lysozyme G-like 2 and LYGH, belongs to the glycosyl hydrolase 23 family. Lysozyme plays an important role in human innate immunity by causing bacterial cell lysis. The protein contains a SLT domain, a protein domain present in bacterial lytic transglycosylase (SLT) and in eukaryotic lysozymes (GEWL). SLT domain catalyzes the cleavage of the beta-1, 4-glycosidic bond between N-acetylmuramic acid (MurNAc) and N-acetylglucosamine (GlcNAc). Recombinant human LYG2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

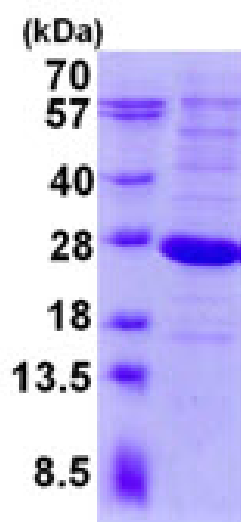
MGSSHHHHHH SSGLVPRGSH MGSSYPFSHS MKPHLHPRLY HG CYGDIMTM KTSGATCDAN SVMNCGIRGS
EMFAEMDLRA IKPYQTLIKE VGQRHCVDPA VIAAIIRES HGGSVLQDGW DHRGLKFGLM QLDKQTYHPV GAWDSKEHLS
QATGILTERI KAIQKKFPTW SVAQHLKGGL SAFKSGIEAI ATPSDIDNDF VNDIIARAKF YKRQSF

General References

Huang P, et al. (2011) Mol Immunol. 48(4):524-31

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)