

**Catalogue number:** G03GB101  
**Product name:**  $\beta$ -1 Immunoglobulin like domain (GB1)  
**Product details:** from *Streptococcus sp. group g*, recombinant,  
fold state checked by NMR.

# Technical Specifications

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Date

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Quantity

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Batch number

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## DESCRIPTION

MW = 6.2 kDa. GB1 (Immunoglobulin G-binding protein G, IgG-binding protein G) expressed in E.coli. The protein consists  $\beta$ -1 Immunoglobulin Binding Domain of Protein G, residues 303-357, with the mutation T303Q (T2Q). This mutation reduces the cleavage of the N-terminal Met residue (Swiss Prot accession P19909).

## PURITY

> 95% by SDS-PAGE. The protein was observed as a single band migrating at molecular weight <10 kDa.

## SUPPLIED AS

1.0mg/ml in 50mM Sodium Phosphate pH 5.5. The concentration is calculated from the absorbance at 280nm ( $\epsilon_{280} = 9970 \text{ M}^{-1}\text{cm}^{-1}$ ).

## ISOTOPIC ENRICHMENT

$^{15}\text{N}$ ,  $^{13}\text{C}$ ,  $^2\text{H}$ ,  $^{13}\text{C}$ - $^{15}\text{N}$ ,  $^2\text{H}$ - $^{13}\text{C}$ - $^{15}\text{N}$ .

## CHARACTERISTICS

Under the above described conditions, the product has been concentrated up to ~3mM.

## STORAGE

The protein is stable at 4°C for months and at 25°C for at least two weeks. Avoid repeated freeze/defrost cycles./defrost cycles.

NMR USE: after the experiments return the sample at 4°C.

## REFERENCES

H.L. Schmidt et al, J Phys Chem B. 2007 Dec 27;111(51):14362-9.

W.T. Franks, J Am Chem Soc. 2005 Sep 7;127(35):12291-305.



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