

Catalogue number: G02CLB01
Product name: Calbindin D9K
Product details: Bovine, Recombinant. Folding state checked by NMR.

Technical Specifications

Rev. date: 06/2013

Date

Quantity

Batch number

DESCRIPTION

MW = 8.5 kDa. Calbindin D9K (Protein S100-G, CABP, Vitamin D-dependent calcium-binding protein, intestinal) cloned from bovine cDNA, expressed in E. coli. The protein consists of Calbindin D9K, mutant P47M (residues 5-79, swissprot accession P02633) bound to two calcium ions.

PROTEIN SEQUENCE

 10 20 30 40 50 60 70
MKSPEELKGI FEKYAAKEGD PNQLSKEELK LLLQTEFPSL LKGMSTLDEL FEELDKNGDG EVSFEEFQVL VKKISQ

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 Ammonium Acetate 50mM, pH 6.0. The concentration is calculated from the absorbance at 280nm ($\epsilon_{280} = 1280 \text{ M}^{-1}\text{cm}^{-1}$).

ISOTOPIC ENRICHMENT

^{15}N , ^{13}C in any combination.

CHARACTERISTICS

Under the above described conditions, to avoid precipitation or protein dimerization, the product can be concentrated to a maximum of 2mM.

STORAGE

-20°C. The protein is stable at 4°C for at least 2 weeks and at 25°C for at least several hours. After initial defrost, aliquot product into individual tubes and refreeze at -20°C. Avoid repeated freeze/defrost cycles.

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



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ASSIGNMENTS AVAILABLE

1H, 13C, 15N, item 201CAB-0: *J.Am.Chem.Soc.* 123: 4181-4188, 2001; *J.Biomol.NMR* 21: 85-98, 2001
1H, 13C, 15N, item 201CAB-Ce: *J.Am.Chem.Soc.* 123: 4181-4188, 2001; *ChemBioChem* 2: 550-558, 2001
1H, 15N, items 201CAB-La, 201CAB-Nd, 201CAB-Pr, 201CAB-Sm, 201CAB-Eu, 201CAB-Tb, 201CABDy,
201CAB-Ho, 201CAB-Er, 201CAB-Tm, 201CAB-Yb: *J.Am.Chem.Soc.* 123: 4181-4188, 2001;
Eur.J.Inorg.Chem. 2121-2127, 2002

REFERENCES

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N.J. Skelton, J. Kordel, W.J. Chazin. *J. Mol Biol.* 1995 Jun 2; 249(2):441-62.



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