

Recombinant Chicken Spectrin, Alpha, Non-erythrocytic 1 (Alpha-fodrin), SH3 Domain

Cat. No. SPTAN1-468C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant chicken α -Spectrin domain SH3 (Spectrin, non-erythroid alpha chain, Fodrin alpha chain) cloned from cDNA from chicken was expressed in <i>E. coli</i> . It consists of the soluble SH3 domain of α -Spectrin from <i>Gallus gallus</i> (residues 965-1025). Swissprot accession P07751. MW = 7.2 kDa.
Species	Chicken
Source	E.coli
Protein Length	965-1025 a.a.
Description	Spectrin alpha chain, brain is a protein that in humans is encoded by the SPTAN1 gene. The spectrins are a family of widely-distributed cytoskeletal proteins which are involved in actin crosslinking. The protein encoded by this gene is an spectrin alpha-chain which heterodimerizes with tissue-specific beta-chains.
Purity	> 95% by SDS-PAGE. The protein was observed as a single band migrating at molecular weight of <10 kDa.
Supplied As	1.0mg/ml in 50mM Ammonium Acetate, pH 4.5. The concentration is calculated from the absorbance at 280nm ($e_{280} = 15470 \text{ M}^{-1} \text{ cm}^{-1}$).
Characteristics	Under the above described conditions, the product has been concentrated up to 2mM without observing significant precipitation and/or protein aggregation.

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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.
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GENE INFORMATION

Gene Name	SPTAN1 spectrin, alpha, non-erythrocytic 1 (alpha-fodrin) [Gallus gallus]
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Synonyms	SPTAN1; spectrin, alpha, non-erythrocytic 1(alpha-fodrin); SPECA; actin binding; calcium ion binding; calmodulin binding; alpha-spectrin; spectrin alpha chain; nonerythroid alpha-spectrin
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Gene ID	374234
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mRNA Refseq	NM_001042538
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Protein Refseq	NP_001036003
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UniProt ID	P07751
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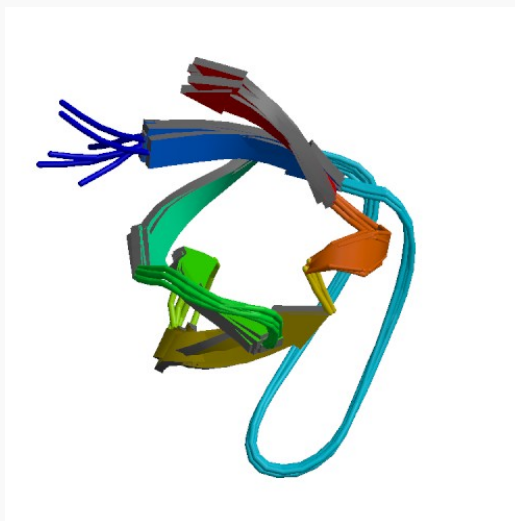
Function	actin binding; calcium ion binding; calmodulin binding
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