

SPTAN1 Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	Alpha-II spectrin;non-erythrocytic 1;SPTAN1;Spectrin alpha chain, non-erythrocytic 1; Spectrin, non-erythroid alpha subunit;NEAS;Fodrin alpha chain;SPTA2
Protein Construction:	1-580 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q13813
Molecular Weight:	83.8 kDa (predicted)
AA Sequence:	MDPSGVKVLETAEDIQERRQQVLDTRYHRFKELSTLRRQKLEDSYRFQFFQRDAEELEKWIQEKLQIASDENYK DPTNLQGKLQKHQAFEAQVQANSQAVKLDLDEGNLMISEGHFASSETIRTRLMELHRQWELLEKMKREKGIKLL QAQKLVQYLRECEVMDWINDKEAIVTSEELGQDLEHVEVLQKKFEFQTDMAAHEERVNEVNQFAAKLIQE QHPEELIKTKQDEVNAAWQRLKGLALQRQKLFQAAEVQRFNRDVEDISWIKKEQLMASDDFGRDLAS VQALLRKHEGLERDLAALEDKVKALCAEADRLQQSHPLSATQIQVKREELITNWEQIRTLAAERHARLNDSYR LQRFLADFRDLTSWVTEMKALINADELASDVAGAEALLDRHQEHKGEIDAHEDSFKSADESGQALLAAGHY ASDEVREKLTVLSEERAALLELWELRRQYEQCMDLQLFYRDTEQVDNWMSKQEAFLNEDLGDSDLDSVEA LLKKHEDFEKLSAQEEKITALDEFATKLIQNNHYAMEDVATRRDALLSRRNALHERAMRRRAQLADSFHLQ QFFR

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Fodrin, which seems to be involved in secretion, interacts with calmodulin in a calcium-dependent manner and is thus candidate for the calcium-dependent movement of the cytoskeleton at the membrane.

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