

# Recombinant Human Synaptosomal-Associated Protein, 25kDa

**Cat. No.** SNAP25-6928H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b> | Recombinant SNAP25 protein was expressed in E. coli and purified by using conventional chromatography techniques. MW: 23 kDa.                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 1-206aa                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | SNAP25 is an essential component of the core complex that mediates presynaptic vesicle trafficking. Thus, SNAP-25 is directly involved in the release of neurotransmitters and this protein exists as two alternative isoforms, SNAP25A and SNAP25B which differ by 9 amino acids in central portion of these proteins. |
| <b>Form</b>             | Liquid in 25mM Tris pH 7.5, 1mM DTT, 2mM EDTA, 10% glycerol                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 23 kDa (206 aa), confirmed by MALDI-TOF.                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MAEDADMRNE LEEMQRRADQ LADESLESTR RMLQLVEESK DAGIRTLVML<br>DEQGEQLERI EEGMDQINKD MKEAEKNLTD LGKFCGLCVC PCNKLKSSDA<br>YKKAWGNNQD GVVASQPARV VDEREQMAIS GGFIRRVTDND ARENEMDENL<br>EQVSGIIGNL RHMALDMGNE IDTQNRQIDR IMEKADSNKT RIDEANQRAT<br>KMLGSG                                                                         |

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>              | >90% by SDS - PAGE                                                                                                                                                                                                                                                                             |
| <b>Applications</b>        | SDS-PAGE                                                                                                                                                                                                                                                                                       |
| <b>Storage</b>             | Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.                                                                                                                                           |
| <b>Concentration</b>       | 1 mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                         |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                                |
| <b>Gene Name</b>           | SNAP25 synaptosomal-associated protein, 25kDa [ Homo sapiens ]                                                                                                                                                                                                                                 |
| <b>Official Symbol</b>     | SNAP25                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>            | SNAP25; synaptosomal-associated protein, 25kDa; SNAP, synaptosomal associated protein, 25kD; synaptosomal-associated protein 25; bA416N4.2; dJ1068F16.2; resistance to inhibitors of cholinesterase 4 homolog; RIC 4; RIC4; SEC9; SNAP 25; SUP; super protein; SNAP; RIC-4; SNAP-25; FLJ23079; |
| <b>Gene ID</b>             | 6616                                                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>         | NM_003081                                                                                                                                                                                                                                                                                      |
| <b>Protein Refseq</b>      | NP_003072                                                                                                                                                                                                                                                                                      |
| <b>MIM</b>                 | 600322                                                                                                                                                                                                                                                                                         |
| <b>UniProt ID</b>          | P60880                                                                                                                                                                                                                                                                                         |
| <b>Chromosome Location</b> | 20p12-p11.2                                                                                                                                                                                                                                                                                    |

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|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pathway</b>  | Acetylcholine Neurotransmitter Release Cycle, organism-specific biosystem; BoNT Light Chain Types A, C1, E cleave SNAP-25, organism-specific biosystem; Botulinum neurotoxicity, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; Dopamine Neurotransmitter Release Cycle, organism-specific biosystem; Effects of Botulinum toxin, organism-specific biosystem; |
| <b>Function</b> | SNARE binding; myosin binding; protein N-terminus binding; protein binding; protein domain specific binding; syntaxin-1 binding; voltage-gated potassium channel activity;                                                                                                                                                                                                                                                         |