

Recombinant Human CADPS, GST-tagged

Cat. No. CADPS-10654H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human CADPS protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

Species Human

Source E.coli

ProteinLength C-term-222a.a.

Description This gene encodes a novel neural/endocrine-specific cytosolic and peripheral membrane protein required for the Ca²⁺-regulated exocytosis of secretory vesicles. The protein acts at a stage in exocytosis that follows ATP-dependent priming, which involves the essential synthesis of phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P₂). Alternative splicing has been observed at this locus and three variants, encoding distinct isoforms, are described.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name CADPS Ca⁺⁺-dependent secretion activator [Homo sapiens]

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Official Symbol	CADPS
Synonyms	Ca ⁺⁺ -dependent secretion activator; CADPS1; CAPS; Ca ²⁺ -dependent activator protein for secretion; CAPS1; Ca ²⁺ -dependent secretion activator; KIAA1121; Ca ²⁺ -regulated cytoskeletal protein; Calcium-dependent activator protein for secretion 1; calcium-dependent secretion activator 1; CAPS-1
Gene ID	8618
mRNA Refseq	NM_183394.2
Protein Refseq	NP_899631.1
MIM	604667
UniProt ID	Q9ULU8
Chromosome Location	3p14.2
Function	calcium ion binding;phospholipid binding;protein binding

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