

Recombinant Human ADCY6 protein, GST-tagged

Cat. No. ADCY6-9409H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ADCY6 (310-655aa) protein was fused to GST-tag and expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	310-655 a.a.
Description	This gene encodes a member of the adenylyl cyclase family of proteins, which are required for the synthesis of cyclic AMP. All members of this family have an intracellular N-terminus, a tandem repeat of six transmembrane domains separated by a cytoplasmic loop, and a C-terminal cytoplasmic domain. The two cytoplasmic regions bind ATP and form the catalytic core of the protein. Adenylyl cyclases are important effectors of transmembrane signaling pathways and are regulated by the activity of G protein coupled receptor signaling. This protein belongs to a small subclass of adenylyl cyclase proteins that are functionally related and are inhibited by protein kinase A, calcium ions and nitric oxide. A mutation in this gene is associated with arthrogryposis multiplex congenita.
Form	Lyophilized from sterile PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.0). 5% trehalose and 5% mannitol are added as protectants before lyophilization.
Molecular Mass	64 kDa

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AA Sequence	AEVSQRQAFQETRGIQARLHLQHENRQQRLLLSVLPQHVAMEMKEDINTKKEDM MFHKIYIQKHDNVSILFADIEGFTSLASQCTAQELVMTLNELFARFDKLA AENHCLRIKI LGDCYYCVSGLPEARADHAHCCVEMGVDMIEAISLVREVTGVNVNMRVGIHSGRVH CGVLGLRKWQFDVWSNDVTLANHMEAGGRAGRIHITRATLQYLNGDYEVEPGRGG ERNAYLKEQHIETFLILGASQKRKEEKAMLA KLQRTRANSMEGLMPRWVPDRAFSR TKDSKA FRQMGI DDSSKDN RGTQDALNPEDEVDEF LSR AIDARSIDQLRKDHVRRFL LTFQRE
Purity	85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Storage	Short-term storage: Store at 2-8 centigrade for (1-2 weeks). Long-term storage: Aliquot and store at -20 to -80 centigrade for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.
Reconstitution	Reconstitute at 0.25 µg/µl in 200 µl sterile water for short-term storage. Reconstitution with 200 µl 50% glycerol solution is recommended for longer term storage. If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

GENE INFORMATION

Gene Name **ADCY6**

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Official Symbol	ADCY6
Synonyms	AC6; LCCS8
Gene ID	112
mRNA Refseq	NM_015270.5
Protein Refseq	NP_056085.1
MIM	600294
UniProt ID	O43306
SDS-PAGE of ADCY6-9409H  ← 64 kDa	