

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	<p>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.</p>
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

AEVSQRQAFQETRGYIQARLHLQHENRQQERLLLSVLPQHVAMEMKEDINTKKEDM
MFHKIYIQKHDNV/SILFADIEGFTSLASQCTAQELVMTLNELFARFDKLAENHCLRIKI
LGDCYYCVSGLPEARADHAHCCVEMGVDMIEAISLVREVTGVNVNMRVGIHSGRVH
CGVLGLRKWQFDVWSNDVTLANHMEAGGRAGRIHITRATLQYLNGDYEVPEPGRGG
ERNAYLKEQHIEFLILGASQKRKEEKAMLAKLQRTRANSMEGLMPRWVPDRAFSR
TKDSKAFRQMGIDDSSKDNRGTQDALNPEDEVDEFSLRAIDARSIDQLRKDHVRRFL
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 g/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**



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