

Recombinant Human ADCY5 protein, His & T7-tagged

Cat. No. ADCY5-6927H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ADCY5 aa. (Gly167~Glu385 (Accession # O95622)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Gly167~Glu385
Description	This gene encodes a member of the membrane-bound adenylyl cyclase enzymes. Adenylyl cyclases mediate G protein-coupled receptor signaling through the synthesis of the second messenger cAMP. Activity of the encoded protein is stimulated by the Gs alpha subunit of G protein-coupled receptors and is inhibited by protein kinase A, calcium and Gi alpha subunits. Single nucleotide polymorphisms in this gene may be associated with low birth weight and type 2 diabetes. Alternatively spliced transcript variants that encode different isoforms have been observed for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 28.2kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 7.0.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	ADCY5 adenylate cyclase 5 [Homo sapiens (human)]
Official Symbol	ADCY5
Synonyms	ADCY5; adenylate cyclase 5; AC5; FDFM; adenylate cyclase type 5; ATP pyrophosphate-lyase 5; adenylate cyclase type V; adenylyl cyclase 5
Gene ID	111
mRNA Refseq	NM_001199642.1
Protein Refseq	NP_001186571.1

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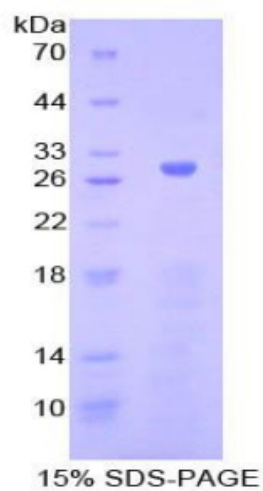
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UniProt ID

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SDS-PAGE

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