Recombinant Human ADCY9, His-tagged, T7 tagged

Cat. No. ADCY9-3168H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Adenylate Cyclase 9 (ADCY9)
Species	Human
Source	E.coli
ProteinLength	1353
Description	Adenylate cyclase is a membrane bound enzyme that catalyses the formation of cyclic AMP from ATP. It is regulated by a family of G protein-coupled receptors, protein kinases, and calcium. The type 9 adenylyl cyclase is a widely distributed adenylyl cyclase, and it is stimulated by beta-adrenergic receptor activation but is insensitive to forskolin, calcium, and somatostatin.
Form	Supplied as lyophilized form in PBS,pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Molecular Mass	32.6kDa
Endotoxin	<1.0eu per 1ug (determined by the lal</1.0eu
Purity	>95%
Applications	SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)
Notes	Small volumes of ADCY9 recombinant protein may occasionally become entrapped in

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Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months.Stability Test: The thermal stability is described by the loss rate of the targetprotein. The loss rate was determined by accelerated thermal degradation test,that is, incubate the protein at 37 degree C for 48h, and no obvious degradation andprecipitation were observed. (Referring from China Biological Products Standard,which was calculated by the Arrhenius equation.) The loss of this protein is lessthan 5% within the expiration date under appropriate storage condition.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Warning	This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GENE INFORMATION

Gene Name	ADCY9 adenylate cyclase 9 [Homo sapiens]
Official Symbol	ADCY9
Synonyms	ADCY9; adenylate cyclase 9; adenylate cyclase type 9; AC9; adenylyl cyclase 9; ATP pyrophosphate-lyase 9; adenylate cyclase type IX; type IX ATP pyrophosphate-lyase; FLJ12046;
Gene ID	115
mRNA Refseq	NM_001116

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Protein Refseq	NP_001107
MIM	603302
UniProt ID	O60503
Chromosome Location	16p13.3
Pathway	Activation of GABAB receptors, organism-specific biosystem; Adenylate cyclase activating pathway, organism-specific biosystem; Adenylate cyclase inhibitory pathway, organism-specific biosystem; Aquaporin-mediated transport, organism-specific biosystem; Bi
Function	ATP binding; GTPase activity; adenylate cyclase activity; metal ion binding; nucleotide binding;

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