Recombinant Human ADD3 Protein, His-tagged

Cat. No. ADD3-76H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ADD3 Protein (Ser2-Lys227) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ser2-Lys227
Description	Adducins are heteromeric proteins composed of different subunits referred to as adducin alpha, beta and gamma. The three subunits are encoded by distinct genes and belong to a family of membrane skeletal proteins involved in the assembly of spectrin-actin network in erythrocytes and at sites of cell-cell contact in epithelial tissues. While adducins alpha and gamma are ubiquitously expressed, the expression of adducin beta is restricted to brain and hematopoietic tissues. Adducin, originally purified from human erythrocytes, was found to be a heterodimer of adducins alpha and beta. Polymorphisms resulting in amino acid substitutions in these two subunits have been associated with the regulation of blood pressure in an animal model of hypertension. Heterodimers consisting of alpha and gamma subunits have also been described. Structurally, each subunit is comprised of two distinct domains. The amino-terminal region is protease resistant and globular in shape, while the carboxy-terminal region is protease sensitive. The latter contains multiple phosphorylation sites for protein kinase C, the binding site for calmodulin, and is required for association with spectrin and actin. Alternatively spliced adducin gamma transcripts encoding different

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	isoforms have been described. The functions of the different isoforms are not known.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 29 kDa Accurate Molecular Mass: 29 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
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 centigrade 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 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	ADD3 adducin 3 (gamma) [Homo sapiens (human)]
Official Symbol	ADD3
Synonyms	ADD3; adducin 3; ADDL; CPSQ3; gamma-adducin; adducin 3 (gamma); adducin-like protein 70

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Gene ID	120
mRNA Refseq	NM_019903
Protein Refseq	NP_063968
MIM	601568
UniProt ID	Q9UEY8

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