

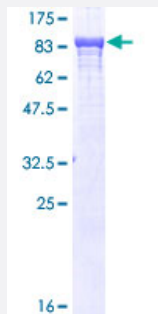
Full-Length

ADD1 (Human) Recombinant Protein (P01)

Catalog # H00000118-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ADD1 full-length ORF (AAH42998, 1 a.a. - 662 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MNGDSRAAVVTSPPTTAPHKERYFDRVDENNPEYLREERNMAPDLRQDFNMMEQKKRVSMILQ
SPAFCEELESMIQEQQFKKGKNPTGLLALQQIADFMTTNVNPVYPAAPQGGMAALNMSLGMVTPV
NDLRGSDSIAYDKGEKLLRCKLAIFYRLADLFGWSQLYNHITTRVNSEQEHFLVFPGLLYSEVTA
SSLVKINLQGDVDRGSTNLGVNQAGFTLHSAIYAARPDVKCVVHIHTPAGAAVSAMKCGLLPISPE
ALSLGEVAYHDYHGILVDEEEKVLIQKNLGPCKSVLILRNHGLVSVGESVEEAFYYIHNLVVACEIQV
RTLASAGGPDNLVLLNPEKYKAKSRSPGSPVGEGTGSPPKWQIGEQEFEALMRMLDNLGYRTGY
PYRYPALREKSKKYSDVEVPASVTGYSFASDGDGSGTCSPLRHSFQKQKREKTRWLNNSGRGDEA
SEEGQNGSSPKSKTKWTKEDGHRSTSAVPNLFVPLNTNPKEVQEMRNKIREQNLQDIKTAGPQ
SQVLCGVVMDRSLVQDAPLSDCTETIEGLELTEQTFSPAKSLSFRKGELVTASKAIEKEYQPHVIV
STTGPNPFTTLDRELEEYRREVERKQKGSEENLDEAREQKEKSPPDQPAVPHPPPSTPIKLEE
GDGCAREYLLP

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

98.56

Interspecies Antigen Sequence

Mouse (91); Rat (92)

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ADD1

Entrez GeneID	118
GeneBank Accession#	BC042998
Protein Accession#	AAH42998
Gene Name	ADD1
Gene Alias	ADDA, MGC3339, MGC44427
Gene Description	adducin 1 (alpha)
Omim ID	102680 145500
Gene Ontology	Hyperlink

Gene Summary

Adducins are a family of cytoskeleton proteins encoded by three genes (alpha, beta, gamma). Adducin is a heterodimeric protein that consists of related subunits, which are produced from distinct genes but share a similar structure. Alpha- and beta-adducin include a protease-resistant N-terminal region and a protease-sensitive, hydrophilic C-terminal region. Alpha- and gamma-adducins are ubiquitously expressed. In contrast, beta-adducin is expressed at high levels in brain and hematopoietic tissues. Adducin binds with high affinity to Ca(2+)/calmodulin and is a substrate for protein kinases A and C. Alternative splicing results in multiple variants encoding distinct isoforms; however, not all variants have been fully described. [provided by RefSeq]

Other Designations

OTTHUMP00000151164|OTTHUMP00000151165|erythrocyte adducin alpha subunit

Disease

- [Albuminuria](#)
- [Alcoholism](#)
- [Amyotrophic lateral sclerosis](#)
- [Arterial Occlusive Diseases](#)
- [Arteriosclerosis](#)
- [Atherosclerosis](#)
- [Brain Ischemia](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Cerebral Hemorrhage](#)
- [Cerebral Palsy](#)
- [Cerebrovascular Accident](#)
- [Cerebrovascular Disorders](#)
- [Cognition Disorders](#)
- [Constriction](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Coronary Stenosis](#)

- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Diabetic Nephropathies](#)
- [Disease Progression](#)
- [Edema](#)
- [Emergencies](#)
- [Endolymphatic Hydrops](#)
- [Gastroschisis](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Heart Defects](#)
- [Hyperaldosteronism](#)
- [Hyperlipidemia](#)
- [Hyperlipoproteinemia Type II](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Hypotension](#)
- [Infant](#)
- [Inflammation](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Meniere Disease](#)
- [Meningococcal Infections](#)
- [Migraine Disorders](#)
- [Myocardial Infarction](#)
- [Myocardial Ischemia](#)

- [Neuropsychological Tests](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Overweight](#)
- [Peripheral Vascular Diseases](#)
- [Polycystic Kidney](#)
- [Polycystic kidney disease](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Proteinuria](#)
- [Recurrence](#)
- [Stroke](#)
- [Vascular Diseases](#)
- [Werner syndrome](#)