

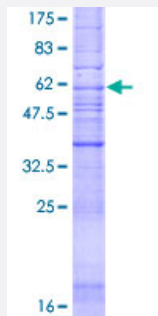
Full-Length

AGTR2 (Human) Recombinant Protein (P01)

Catalog # H00000186-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human AGTR2 full-length ORF (NP_000677.2, 1 a.a. - 363 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MKGNSTLATTSKNITSGLHFGLVNIIGNESTLNCSQKPSDKHLDAIPILYYIIFVIGFLVNIVVTLFC
CQKGPKKVSSMFNLAVADLLLLATLPLWATYYSRYDWLFGPVMCKVFGSFLTLNMFASIFFITC
MSVDRYQSVIYPFLSQRRNPWQASYVPLVWCMACLSSLPTFYFRDVRTIEYLGVNACIMAFPPPEK
YAQWSAGIALMKNILGFIPLFIATCYFGIRKHLKTNISYGKNRITRDQVLKMAAAVVLAFIGWLPFHV
LTFLDALAWMGVINSCEVIAVIDLALPFAILLGFTNSCVNPFLYCFVGNRFQQKLRSVFRVPITWLQ
GKRESMSCRKSSSLREMETFVS

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

67.6

Interspecies Antigen Sequence

Mouse (92); 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 — AGTR2

Entrez GeneID[186](#)**GeneBank Accession#**[NM_000686.3](#)**Protein Accession#**[NP_000677.2](#)**Gene Name**

AGTR2

Gene Alias

AT2, ATGR2, MRX88

Gene Description

angiotensin II receptor, type 2

Omim ID[300034](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

Angiotensin II is a potent pressor hormone and a primary regulator of aldosterone secretion. It is an important effector controlling blood pressure and volume in the cardiovascular system. It acts through at least two types of receptors termed AT1 and AT2. AGTR2 belongs to a family 1 of G-protein coupled receptors. It is an integral membrane protein. It plays a role in the central nervous system and cardiovascular functions that are mediated by the renin-angiotensin system. This receptor mediates programmed cell death (apoptosis). In adults, it is highly expressed in myometrium with lower levels in adrenal gland and fallopian tube. It is highly expressed in fetal kidney and intestine. The human AGTR2 gene is composed of three exons and spans at least 5 kb. Exons 1 and 2 encode for 5' untranslated mRNA sequence and exon 3 harbors the entire uninterrupted open reading frame. [provided by RefSeq]

Other Designations

OTTHUMP00000023878|angiotensin receptor 2

Pathway

- [Neuroactive ligand-receptor interaction](#)
- [Renin-angiotensin system](#)

Disease

- [Abnormalities](#)
- [Adenocarcinoma](#)
- [Albuminuria](#)
- [Alzheimer disease](#)
- [Aortic Coarctation](#)
- [Aortic Valve Stenosis](#)
- [Arrhythmias](#)
- [Atherosclerosis](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Cerebrovascular Accident](#)
- [Constriction](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Coronary Restenosis](#)
- [Cough](#)
- [Death](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)

- [Diabetic Angiopathies](#)
- [Diabetic Nephropathies](#)
- [Diabetic Neuropathies](#)
- [Diabetic Retinopathy](#)
- [Disease Progression](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glaucoma](#)
- [Glomerulonephritis](#)
- [Hydronephrosis](#)
- [Hyperlipidemias](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Hypoglycemia](#)
- [Inflammation](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Mental Status Schedule](#)
- [Metabolic Syndrome X](#)
- [Multicystic Dysplastic Kidney](#)
- [Myocardial Infarction](#)
- [Neoplasms](#)
- [Neovascularization](#)
- [Obesity](#)

- [Osteoporosis](#)
- [Polycythemia](#)
- [Postoperative Complications](#)
- [Pre-Eclampsia](#)
- [Psychiatric Status Rating Scales](#)
- [Puberty](#)
- [Stomach Neoplasms](#)
- [Tuberculosis](#)
- [Turner Syndrome](#)
- [Ureteral Obstruction](#)
- [Urinary Tract Infections](#)
- [Urologic Diseases](#)
- [Ventricular Dysfunction](#)
- [Vesico-Ureteral Reflux](#)