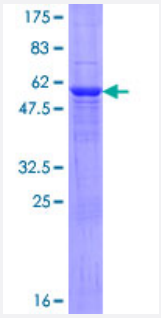
Full-Length Sm Size

NAT2 (Human) Recombinant Protein (P02)

Catalog # H00000010-P02 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human NAT2 full-length ORF (AAH15878.1, 1 a.a. - 290 a.a.) recombinant protein with GST-tag at N -terminal.
Sequence	MDIEAYFERIGYKNSRNKLDLETLTDILEHQIRAVPFENLNMHCGQAMELGLEAIFDHIVRRNRGGW CLQVNQLLYWALTTIGFQTTMLGGYFYIPPVNKYSTGMVHLLLQVTIDGRNYIVDAGSGSSSQMWQ PLELISGKDQPQVPCIFCLTEERGIWYLDQIRREQYITNKEFLNSHLLPKKKHQKIYLFTLEPQTIEDF ESMNTYLQTSPTSSFITTSFCSLQTPEGVYCLVGFILTYRKFNYKDNTDLVEFKTLTEEEVEEVLKNI FKISLGRNLVPKPGDGSLTI
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	59.9
Interspecies Antigen Sequence	Mouse (72); Rat (74)
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.

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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 — NAT2

Entrez GeneID	10
GeneBank Accession#	BC015878.1
Protein Accession#	AAH15878.1
Gene Name	NAT2
Gene Alias	AAC2, PNAT
Gene Description	N-acetyltransferase 2 (arylamine N-acetyltransferase)
Omim ID	243400
Gene Ontology	Hyperlink
Gene Summary	This gene encodes an enzyme that functions to both activate and deactivate arylamine and hydraz ine drugs and carcinogens. Polymorphisms in this gene are responsible for the N-acetylation poly morphism in which human populations segregate into rapid, intermediate, and slow acetylator ph enotypes. Polymorphisms in this gene are also associated with higher incidences of cancer and d rug toxicity. A second arylamine N-acetyltransferase gene (NAT1) is located near this gene (NAT 2). [provided by RefSeq
Other Designations	N-acetyltransferase 2|arylamide acetylase 2|arylamine N-acetyltransferase 2

Pathway

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- Caffeine metabolism
- Drug metabolism - other enzymes
- Metabolic pathways

Disease

- Abnormalities
- Acute Disease
- Adenocarcinoma
- Adenoma
- Adenomatous Polyposis Coli
- Alveolar Bone Loss
- Alzheimer disease
- Aneuploidy
- Arthritis
- Asthma
- Astrocytoma
- Atherosclerosis
- Behcet Syndrome
- Birth Weight
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Bronchial Hyperreactivity
- Carcinoma
- Cardiovascular Diseases
- Cataract

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- Cell Transformation
- Cholangiocarcinoma
- Chromosome Aberrations
- Cleft Lip
- Cleft Palate
- Clubfoot
- Cocarcinogenesis
- Colitis
- Colon cancer
- Colonic Neoplasms
- Colonic Polyps
- Colorectal Neoplasms
- Congenital Abnormalities
- Connective Tissue Diseases
- Crohn Disease
- Cystic fibrosis
- Dementia
- Dermatitis
- Diabetes Mellitus
- Disease Progression
- Disease Susceptibility
- DNA Damage
- Drug Hypersensitivity
- Drug-Induced Liver Injury
- Ductus Arteriosus
- Edema

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- Endometriosis
- Esophageal Neoplasms
- Fetal Diseases
- Food Hypersensitivity
- Gallbladder Neoplasms
- Gallstones
- Genetic Diseases
- Genetic Predisposition to Disease
- Genomic Instability
- Glioma
- Glomerulonephritis
- Head and Neck Neoplasms
- Hearing Disorders
- Hearing Loss
- Hepatitis
- Hepatitis B
- HIV Infections
- HIV Seropositivity
- Hypersensitivity
- Hypertension
- Infant
- Infection
- Inflammation
- Inflammatory Bowel Diseases
- Jaw Abnormalities
- Kidney Failure

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- Kidney Neoplasms
- Laryngeal Neoplasms
- Leukemia
- Leukoplakia
- Limb Deformities
- Liver Cirrhosis
- Liver Diseases
- Liver Neoplasms
- Lung carcinoma
- Lung Neoplasms
- Lupus Erythematosus
- Lymphatic Metastasis
- Lymphoma
- Macular Degeneration
- Meningeal Neoplasms
- Meningioma
- Mesothelioma
- Microsatellite Instability
- Motor Neuron Disease
- Mouth Neoplasms
- Multiple Chemical Sensitivity
- Multiple Myeloma
- Musculoskeletal Diseases
- Nasopharyngeal Neoplasms
- Neoplasm Invasiveness

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- Neoplasm Recurrence
- Neoplasms
- Neural Tube Defects
- Neurodegenerative Diseases
- Obstetric Labor
- Occupational Diseases
- Oropharyngeal Neoplasms
- Ovarian cancer
- Ovarian Failure
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Pancreatitis
- Papillomavirus Infections
- Parkinson disease
- Pharyngeal Neoplasms
- Pleural Neoplasms
- Pneumonia
- Polymyalgia Rheumatica
- Pregnancy Complications
- Premature Birth
- Presbycusis
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Psoriasis

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- Pulmonary Disease
- Rectal Neoplasms
- Rhinitis
- Schistosomiasis
- Scleroderma
- Sigmoid Neoplasms
- Skin Diseases
- Small Cell Lung Carcinoma
- Spinal Dysraphism
- Stomach Neoplasms
- Thyroid Neoplasms
- Tobacco Use Disorder
- Trisomy
- Tuberculosis
- Urinary Bladder Neoplasms
- Urologic Neoplasms
- Uterine Cervical Neoplasms

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