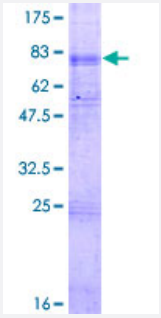
Full-Length

SLC22A5 (Human) Recombinant Protein (P01)

Catalog # H00006584-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human SLC22A5 full-length ORF (AAH12325.1, 1 a.a. - 557 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MRDYDEVTAFLGEWGPFQRLIFFLLSASIIPNGFTGLSSVFLIATPEHRCRVPDAANLSSAWRNHT VPLRLRDGREVPHSCRRYRLATIANFSALGLEPGRDVDLGQLEQESCPDGWEFSQDVYLSTIVTE WNLVCEDDWKAPLTISLFFVGVLLGSFISGQLSDRFGRKNVLFVTMGMQTGFSFLQIFSKNFEMF VVLFVLVGMGQISNYVAAFVLGTEILGKSVRIIFSTLGVCIFYAFGYMVLPLFAYFIRDWRMLLVALTM PGVLCVALWWFIPESPRWLISQGRFEEAEVIIRKAAKANGIVVPSTIFDPSELQDLSSKKQQSHNIL DLLRTWNIRMVTIMSIMLWMTISVGYFGLSLDTPNLHGDIFVNCFLSAMVEVPAYVLAWLLLQYLPR RYSMATALFLGGSVLLFMQLVPPDLYYLATVLVMVGKFGVTAAFSMVYVYTAELYPTVVRNMGVG VSSTASRLGSILSPYFVYLGAYDRFLPYILMGSLTILTAILTLFLPESFGTPLPDTIDQMLRVKGMKHR KTPSHTRMLKDGQERPTILKSTAF
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	89.1
Interspecies Antigen Sequence	Mouse (85); Rat (85)
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 — SLC22A5

Entrez GeneID	6584
GeneBank Accession#	BC012325.1
Protein Accession#	AAH12325.1
Gene Name	SLC22A5
Gene Alias	CDSP, FLJ46769, OCTN2, OCTN2VT
Gene Description	solute carrier family 22 (organic cation/carnitine transporter), member 5
Omim ID	212140 603377
Gene Ontology	Hyperlink
Gene Summary	Polyspecific organic cation transporters in the liver, kidney, intestine, and other organs are critical for elimination of many endogenous small organic cations as well as a wide array of drugs and environmental toxins. The encoded protein is a plasma integral membrane protein which functions both as an organic cation transporter and as a sodium-dependent high affinity carnitine transporter. The encoded protein is involved in the active cellular uptake of carnitine. Mutations in this gene are the cause of systemic primary carnitine deficiency (CDSP), an autosomal recessive disorder manifested early in life by hypoketotic hypoglycemia and acute metabolic decompensation, and later in life by skeletal myopathy or cardiomyopathy. [provided by RefSeq

Other Designations	high-affinity sodium dependent carnitine cotransporter|organic cation transporter 2|organic cation transporter 5|organic cation/carnitine transporter 2|solute carrier family 22 (organic cation transporter), member 5|solute carrier family 22 member 5

Disease

- Anus Diseases
- Arthritis
- Bronchiolitis
- Cardiomyopathies
- Cardiovascular Diseases
- Cholangitis
- Colitis
- Colorectal Neoplasms
- Crohn Disease
- Diabetes Mellitus
- Disease Progression
- Disease Susceptibility
- Diseases in Twins
- Edema
- Genetic Predisposition to Disease
- Growth Disorders
- Hypersensitivity
- Hypertension
- Hypertrophy
- Ileitis
- Inflammation
- Inflammatory Bowel Diseases

- Kidney Failure
- Liver Cirrhosis
- Pre-Eclampsia
- Pregnancy Complications
- Psoriasis
- Respiratory Syncytial Virus Infections
- Tobacco Use Disorder
- Tuberculosis