

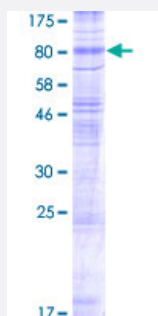
## Full-Length

# SLC17A7 (Human) Recombinant Protein (P01)

Catalog # H00057030-P01

Size 2 ug

## Applications



## Specification

### Product Description

Human SLC17A7 full-length ORF ( AAH59379.1, 1 a.a. - 560 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

MEFRQEEFRKLAGRALGKLHRLLEKRQEGAETLELSADGRPVTQTTRDPPVVDCTCFGLPRRYII  
AIMSGLGFCISFGIRCNLGVAMSMVNNSTTHRGGHVVVQKAQFSWDPETVGLIHGSFFWGYVTQI  
PGGFICQKFAANRVFGFAIVATSTLNMLIPSAARVHYGCVIFVRILQGLVEGVTPACHGWSKWAP  
PLERSRLATTAFCGSYAGAVVAMPLAGVLVQYSGWSSVFVYGSFGIFWYLFWLLVSYESPALHP  
SISEEERKYIEDAIGESAKLMNPLTKFSTPWRRFFTSMPVYAIIVANFCRSWTFYLLISQPAYFEEV  
FGFEISKVGLVSALPHLVTIPIGGQIADFLRSRRIMSTTNVRKLMNCGGFGMEATLLL VVGYSHS  
KGV AISFLVAVGFSGFAISGFNVNHLDIARRYASILMGISNGVGTLSGMVCP IIVGAMTKHKTREEW  
QYVFLIASLVHYGGVIFYGVFASGEKQPWAEPEEMSEKCGFVGHDQLAGSDDSEMEDEAEPP  
GAPPAPPPSYGATHSTFQPPRPPPPVRDY

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

88.1

### 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 — SLC17A7

**Entrez GeneID**[57030](#)**GeneBank Accession#**[BC059379.1](#)**Protein Accession#**[AAH59379.1](#)**Gene Name**

SLC17A7

**Gene Alias**

BNPI, VGLUT1

**Gene Description**

solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 7

**Omim ID**[605208](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene is a vesicle-bound, sodium-dependent phosphate transporter that is specifically expressed in the neuron-rich regions of the brain. It is preferentially associated with the membranes of synaptic vesicles and functions in glutamate transport. The protein shares 82 % identity with the differentiation-associated Na-dependent inorganic phosphate cotransporter and they appear to form a distinct class within the Na<sup>+</sup>/Pi cotransporter family. [provided by RefSeq]

**Other Designations**

brain-specific Na-dependent inorganic phosphate cotransporter|solute carrier family 17, member 7|vesicular glutamate transporter 1

## Disease

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