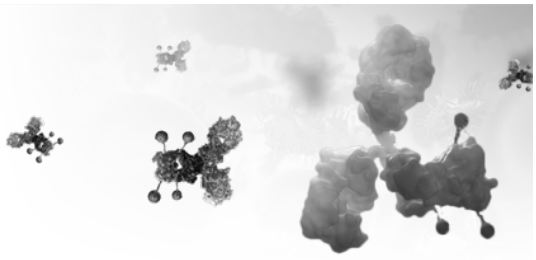

Human SLC17A7 peptide (DAG-P1305)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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+/Pi cotransporter family. [provided by RefSeq, Jul 2008]
Specificity	Expressed in several regions of the brain including amygdala, cerebellum, cerebral cortex, hippocampus, frontal lobe, medulla, occipital lobe, putamen and temporal lobe.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the major facilitator superfamily. Sodium/anion cotransporter family. VGLUT subfamily.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	SLC17A7 solute carrier family 17 (vesicular glutamate transporter), member 7 [Homo sapiens (human)]
Official Symbol	SLC17A7

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Synonyms	SLC17A7; solute carrier family 17 (vesicular glutamate transporter), member 7; BNPI; VGLUT1; vesicular glutamate transporter 1; solute carrier family 17 member 7; brain-specific Na-dependent inorganic phosphate cotransporter; brain-specific Na(+)-dependent inorganic phosphate cotransporter; solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 7;
Entrez Gene ID	57030
mRNA Refseq	NM_020309.3
Protein Refseq	NP_064705.1
UniProt ID	Q9P2U7
Chromosome Location	19q13
Pathway	Glutamate Neurotransmitter Release Cycle, organism-specific biosystem; Glutamatergic synapse, organism-specific biosystem; Glutamatergic synapse, conserved biosystem; Neuronal System, organism-specific biosystem; Neurotransmitter Release Cycle, organism-specific biosystem; Nicotine addiction, organism-specific biosystem; Nicotine addiction, conserved biosystem; Organic anion transporters, organism-specific biosystem; Retrograde endocannabinoid signaling, organism-specific biosystem; Retrograde e
Function	L-glutamate transmembrane transporter activity; inorganic phosphate transmembrane transporter activity; sodium-dependent phosphate transmembrane transporter activity; sodium:inorganic phosphate symporter activity;

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