

SLC15A2 Protein, Human (HEK293, His, MBP, FLAG)

Cat. No.:	HY-P702006
Synonyms:	SLC15A2; Solute carrier family 15 member 2; Kidney H(+)/peptide cotransporter; Oligopeptide transporter; kidney isoform; Peptide transporter 2
Species:	Human
Source:	HEK293
Accession:	Q16348 (N2-L729)
Gene ID:	6565
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	SLC15A2 protein, a proton-coupled amino-acid transporter, demonstrates a preference for transporting oligopeptides containing 2 to 4 amino acids, with a notable affinity for dipeptides. Its transport activity involves a proton to peptide stoichiometry of 2:1 or 3:1, facilitating the absorption of circulating di- and tripeptides from the glomerular filtrate within the kidney. Beyond its role in peptide transport, SLC15A2 exhibits versatility by transporting various substances, including beta-lactam antibiotics like cefadroxil, other antiviral and anticancer drugs, the dipeptide-like aminopeptidase inhibitor bestatin, and carnosine. Notably, its involvement in innate immunity extends to promoting the detection of microbial pathogens by NOD-like receptors (NLRs), and it mediates the transport of bacterial peptidoglycans across cellular membranes, such as muramyl dipeptide (MDP), a ligand for NOD2, particularly in macrophages.
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Caution: Product has not been fully validated for medical applications. For research use only.

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