

## SLC20A2 Protein, Human (Sf9, His, MBP, FLAG)

Cat. No.:	HY-P702038
Synonyms:	SLC20A2; Sodium-dependent phosphate transporter 2; Gibbon ape leukemia virus receptor 2; GLVR-2; Phosphate transporter 2; PiT-2; Pit2; hPit2; Solute carrier family 20 member 2
Species:	Human
Source:	Sf9 insect cells
Accession:	Q08357 (A2-V652)
Gene ID:	6575
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	SLC20A2, a sodium-phosphate symporter, demonstrates a preference for transporting the monovalent form of phosphate, with a stoichiometry of two sodium ions per phosphate ion. Documented in multiple studies, this transporter assumes a critical role in bone quality and strength by facilitating phosphate transport essential for bone mineralization. It is also vital for maintaining normal levels of phosphate in cerebrospinal fluid. Furthermore, SLC20A2 mediates phosphate-induced calcification of vascular smooth muscle cells and exhibits functional compensation for the loss of SLC20A1 in these cells. In the context of microbial infection, SLC20A2 serves as a retroviral receptor, rendering human cells susceptible to infection by amphotropic murine leukemia virus (A-MuLV), 10A1 murine leukemia virus (10A1 MLV), and certain feline leukemia virus subgroup B (FeLV-B) variants. These multifaceted functions highlight the diverse roles of SLC20A2 in both physiological and pathological processes.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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