

SLC5A2 Protein, Human (Cell-Free, His, SUMO, Myc)

Cat. No.:	HY-P702443
Synonyms:	Sodium/glucose cotransporter 2; Low affinity sodium-glucose cotransporter; Solute carrier family 5 member 2
Species:	Human
Source:	E. coli Cell-free
Accession:	P31639 (M1-A102)
Gene ID:	6524
Molecular Weight:	30.5 kDa

PROPERTIES

AA Sequence	<p>M E E H T E A G S A P E M G A Q K A L I D N P A D I L V I A A Y F L L V I G V G</p> <p>L W S M C R T N R G T V G G Y F L A G R S M V W W P V G A S L F A S N I G S G H</p> <p>F V G L A G T G A A S G L A V A G F E W N A</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>SLC5A2 is an electrogenic Na(+)-coupled sugar symporter responsible for actively transporting D-glucose across the plasma membrane, with a 1:1 coupling ratio of Na(+) to sugar. The transporter's activity relies on the transmembrane Na(+) electrochemical gradient, established by the Na(+)/K(+) pump. Primarily, SLC5A2 plays a crucial role in the reabsorption of D-glucose from the glomerular filtrate, functioning at the brush border of the early proximal tubules in the kidney. This symporter's activity is essential for the maintenance of glucose homeostasis by efficiently retrieving glucose from the filtrate, contributing to the overall renal handling of glucose in the body.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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