Niemann Pick C2/NPC2 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P74693
Synonyms:	NPC intracellular cholesterol transporter 2; Niemann-Pick disease type C2 protein; HE1
Species:	Mouse
Source:	HEK293
Accession:	Q9Z0J0 (E20-S149)
Gene ID:	67963
Molecular Weight:	Approximately 15.9-19 kDa

PROPERTIES

AA Sequence	E P L H F K D C G S K V G V I K E V N V S P C P T D P C Q L H K G Q S Y S V N I T F T S G T Q S Q N S T A L V H G I L E G I R V P F P I P E P D G C K S G I N C P I Q K D K V Y S Y L N K L P V K N E Y P S I K L V V E W K L E D D K K N N L F C W E I P V Q I T S
Biological Activity	Data is not available.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	Niemann Pick C2 (NPC2) functions as an intracellular cholesterol transporter, collaborating with NPC1 to facilitate the efflux of cholesterol from lysosomal compartments. Upon the release of unesterified cholesterol from LDLs within late endosomes/lysosomes, NPC2 plays a crucial role by transferring cholesterol to the cholesterol-binding pocket in the N-terminal domain of NPC1. Notably, NPC2 exhibits a 1:1 stoichiometry in binding cholesterol and demonstrates the capacity to bind various sterols, such as lathosterol, desmosterol, and plant sterols like stigmasterol and beta-sitosterol. Moreover, the secreted form of NPC2 contributes to the regulation of biliary cholesterol secretion, exerting its influence through the

	stimulation of ABCG5/ABCG8-mediated cholesterol transport.

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