

KIRREL2/NEPH3 Protein, Human (HEK293, His)

Cat. No.:	HY-P77044
Synonyms:	Kin of IRRE-like protein 2; Nephtrin-like protein 3; NEPH3
Species:	Human
Source:	HEK293
Accession:	Q6UWL6 (M1-R503)
Gene ID:	84063
Molecular Weight:	Approximately 52.3 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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.
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>KIRREL2/NEPH3 Protein is implicated in potentially regulating basal insulin secretion, suggesting its involvement in the intricate processes of insulin release. Structurally, it forms homodimers, indicative of its ability to engage in self-association. Functionally, KIRREL2/NEPH3 interacts with key proteins such as NPHS2/podocin, NPHS1, and FYN, highlighting its involvement in molecular interactions crucial for cellular processes. The interaction with NPHS2/podocin occurs through the C-terminus, while the interaction with NPHS1 involves the Ig-like domains, suggesting diverse binding mechanisms. Furthermore, the association with FYN adds a layer of complexity to its potential roles in cellular signaling pathways. The multifaceted interactions and potential regulatory roles of KIRREL2/NEPH3 underscore its significance in cellular functions beyond insulin secretion, warranting further investigation to unravel its precise contributions to various biological processes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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