Kirrel1/NEPH1 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P76467
Synonyms:	Kin of IRRE-like protein 1; Kin of irregular chiasm-like protein 1; Nephrin-like protein 1; Kirrel1; Neph1
Species:	Human
Source:	HEK293
Accession:	Q96J84 (M1-L493)
Gene ID:	55243
Molecular Weight:	Approximately 96.1 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm 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/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	Kirrel1/NEPH1 Protein is crucial for the proper function of the glomerular filtration barrier in the kidneys. It plays a vital role in maintaining a stable podocyte architecture by facilitating the interdigitating foot processes connected by specialized cell-cell junctions called the slit diaphragm. This protein acts as a signaling molecule and requires the presence of TEC kinases to fully activate the transcription factor AP-1. Kirrel1/NEPH1 interacts with TJP1/ZO-1 and NPHS2/podocin, and its interaction with NPHS1/nephrin relies on Kirrel1/NEPH1 glycosylation. It forms homodimers through its Ig-like domains and, when tyrosine-phosphorylated, it interacts with GRB2.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA