

Active Recombinant Full Length Human NHERF1 Protein, C-Flag-tagged

Cat. No. NHERF1-1053HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human NHERF1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a sodium/hydrogen exchanger regulatory cofactor. The protein interacts with and regulates various proteins including the cystic fibrosis transmembrane conductance regulator and G-protein coupled receptors such as the beta2-adrenergic receptor and the parathyroid hormone 1 receptor. The protein also interacts with proteins that function as linkers between integral membrane and cytoskeletal proteins. The protein localizes to actin-rich structures including membrane ruffles, microvilli, and filopodia. Mutations in this gene result in hypophosphatemic nephrolithiasis/osteoporosis type 2, and loss of heterozygosity of this gene is implicated in breast cancer.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Cell treatment
Molecular Mass	38.7 kDa
AA Sequence	MSADAAAGAPLPRLCCLEKGPNYGFGHLHGEKGKLGQYIRLVEPGSPAEEKAGLLAG

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DRLVEVNGENVEKE THQQVVSIRAAALNAVRLLVDPETDEQLQKLGVQVREELLR
 AQEAPGQAEPPAAAEVQGAGNENEPREA DKSHPEQRELRPRLCTMKKGPSGYGF
 NLHSDKSKPGQFIRSVDPDSPAEASGLRAQDRIVEVNGVCMEGK QHGDVVSIRA
 GGDETLLVVDRETDEFFKKCRVIPSQEHLNGPLPVPFTNGEIQKENSREALAEAAL
 ES PRPALVRSASSDTSEELNSQDSPPKQDSTAPSSTSSSDPILDFNISLAMAKERAH
 QKRSSKRAPQMDWSKKNELFSNLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Full Length	Full L.

GENE INFORMATION

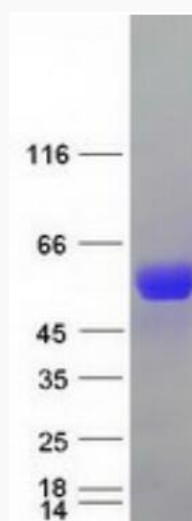
Gene Name	NHERF1 NHERF family PDZ scaffold protein 1 [Homo sapiens (human)]
Official Symbol	NHERF1
Synonyms	EBP50; NHERF; NHE-RF; NHERF-1; NPHLOP2; SLC9A3R1

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Gene ID	9368
mRNA Refseq	NM_004252.5
Protein Refseq	NP_004243.1
MIM	604990
UniProt ID	O14745



Coomassie blue staining of purified SLC9A3R1 protein.