

## Recombinant Human SLC9A3R1 Protein, Full Length, C-Myc/DDK tagged

**Cat. No.** SLC9A3R1-13HFL    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b> | Purified recombinant protein of Homo sapiens solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1 (SLC9A3R1) with C-Myc/DDK tag was expressed in HEK293T.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | Full Length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | 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. |
| <b>Bio-activity</b>     | Cell treatment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 38.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                          |
| <b>Notes</b>          | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| <b>Stability</b>      | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.        |
| <b>Storage</b>        | Store at -80 centigrade.                                                                                                                             |
| <b>Concentration</b>  | > 0.05 µg/µL as determined by microplate BCA method                                                                                                  |
| <b>Storage Buffer</b> | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol                                                                                                 |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | SLC9A3R1 solute carrier family 9, subfamily A (NHE3, cation proton antiporter 3), member 3 regulator 1 [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Official Symbol</b> | SLC9A3R1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>        | SLC9A3R1; solute carrier family 9, subfamily A (NHE3, cation proton antiporter 3), member 3 regulator 1; solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulator 1, solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulatory factor 1, solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1; Na(+)/H(+) exchange regulatory cofactor NHE-RF1; EBP50; NHERF; Na+/H+ exchange regulatory co-factor; regulatory cofactor of Na(+)/H(+) exchanger; ezrin-radixin-moesin binding phosphoprotein-50; ezrin-radixin-moesin-binding phosphoprotein 50; solute carrier family 9 isoform A3 regulatory factor 1; solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulatory factor 1; NHERF1; NHERF-1; NPHLOP2 |

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|----------------|-----------|
| Gene ID        | 9368      |
| mRNA Refseq    | NM_004252 |
| Protein Refseq | NP_004243 |
| MIM            | 604990    |
| UniProt ID     | O14745    |
| SDS-PAGE       |           |

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