

## Recombinant Human MRPS27 Protein, His-tagged

Cat. No. MRPS27-1938H Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Recombinant human MRPS27 protein, fused to His-tagged at N-terminus, was expressed in E. coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Species          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Source           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Description      | <p>Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 28S subunit protein that may be a functional partner of the death associated protein 3 (DAP3). Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Nov 2013].</p> |
| Form             | 25 mM Tris, pH 8.0, 150 mM NaCl, 10% glycerol, 1% Sarkosyl. Store at -80 Centigrade. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Molecular Mass   | 47.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|               |                                                             |
|---------------|-------------------------------------------------------------|
| <b>Purity</b> | > 80% as determined by SDS-PAGE and Coomassie blue staining |
|---------------|-------------------------------------------------------------|

|                      |                                                  |
|----------------------|--------------------------------------------------|
| <b>Concentration</b> | >50 ug/mL as determined by microplate BCA method |
|----------------------|--------------------------------------------------|

## GENE INFORMATION

|                  |                                                             |
|------------------|-------------------------------------------------------------|
| <b>Gene Name</b> | MRPS27 mitochondrial ribosomal protein S27 [ Homo sapiens ] |
|------------------|-------------------------------------------------------------|

|                        |        |
|------------------------|--------|
| <b>Official Symbol</b> | MRPS27 |
|------------------------|--------|

|                 |                |
|-----------------|----------------|
| <b>Synonyms</b> | MRP-S27; S27mt |
|-----------------|----------------|

|                |       |
|----------------|-------|
| <b>Gene ID</b> | 23107 |
|----------------|-------|

|                    |           |
|--------------------|-----------|
| <b>mRNA Refseq</b> | NM_015084 |
|--------------------|-----------|

|                       |           |
|-----------------------|-----------|
| <b>Protein Refseq</b> | NP_055899 |
|-----------------------|-----------|

|            |        |
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| <b>MIM</b> | 611989 |
|------------|--------|

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| <b>UniProt ID</b> | Q92552 |
|-------------------|--------|

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