

## Recombinant Human GDPD3, GST-tagged

**Cat. No.** GDPD3-13218H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human GDPD3 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | C-term-260a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | This gene encodes a protein belonging to the glyceraldehyde-3-phosphate dehydrogenase family of enzymes that play an important role in carbohydrate metabolism. Like its somatic cell counterpart, this sperm-specific enzyme functions in a nicotinamide adenine dinucleotide-dependent manner to remove hydrogen and add phosphate to glyceraldehyde 3-phosphate to form 1,3-diphosphoglycerate. During spermiogenesis, this enzyme may play an important role in regulating the switch between different energy-producing pathways, and it is required for sperm motility and male fertility. |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                |

### GENE INFORMATION

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|                            |                                                                                                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | GDPD3 glycerophosphodiester phosphodiesterase domain containing 3 [ Homo sapiens ]                                                                          |
| <b>Official Symbol</b>     | GDPD3                                                                                                                                                       |
| <b>Synonyms</b>            | GDPD3; glycerophosphodiester phosphodiesterase domain containing 3; glycerophosphodiester phosphodiesterase domain-containing protein 3; MGC4171; FLJ22603; |
| <b>Gene ID</b>             | 79153                                                                                                                                                       |
| <b>mRNA Refseq</b>         | NM_024307                                                                                                                                                   |
| <b>Protein Refseq</b>      | NP_077283                                                                                                                                                   |
| <b>UniProt ID</b>          | Q7L5L3                                                                                                                                                      |
| <b>Chromosome Location</b> | 16p11.2                                                                                                                                                     |
| <b>Function</b>            | glycerophosphodiester phosphodiesterase activity; hydrolase activity; metal ion binding;                                                                    |

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