

Recombinant Human GDPD3, GST-tagged

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

SPECIFICATION

Product Overview Recombinant Human GDPD3 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

Species Human

Source E.coli

ProteinLength C-term-260a.a.

Description 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.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

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