

# Recombinant human 6-phosphogluconate dehydrogenase, decarboxylating

Catalog No: #AP71701

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Package Size: #AP71701-1 20ug #AP71701-2 100ug #AP71701-3 1mg

## Description

|                       |  |
|-----------------------|--|
| Product Name          | Recombinant human 6-phosphogluconate dehydrogenase, decarboxylating  |
| Brief Description     | Recombinant Protein  |
| Host Species          | E.coli   |
| Purification          | Greater than 90% as determined by SDS-PAGE.  |
| Immunogen Description | Expression Region:4-483aaSequence Info:Partial   |
| Accession No.         | P52209   |
| Uniprot               | P52209   |
| GeneID                | 5226;  |
| Calculated MW         | 79.8 kDa   |
| Tag Info              | N-terminal GST-tagged  |
| Target Sequence       | ADIALIGLAVMGQNLILNMNDHGFVVCFAFNRTVSKVDDFLANEAKGTKVVGQAQSLKEMVSKLKKPRRIILLVKA<br>GQAVDDFIEKLVPLDGTGDIIDGGNSEYRDTTRRCRDLKAKGILFVSGVSGGEEGARYGPSLMPGGNKEAW<br>PHIKTIFQGIAAKVGTGEPCCDWVGDEGAGHFVKMVHNGIEYGDMLICEAYHLMKDVLGMAQDEMAQAFED<br>WNKTELDSFLIEITANILKFQDTDGKHLLPKIRDSAGQKGTGKWTASALEYGVVTLIGEAVFARCLSSLKDERI<br>QASKKLGPKQKFQFDGDKSFLEDIRKALYASKIISYAQQFMLLRQAATEFGWTLNYGGIALMWRGGCIIRSVF<br>LGKIKDAFDRNPELQNLDDFFKSAVENCQDSWRRRAVSTGVQAGIPMPCFTTALSFYDGYRHEMLPASLIQA<br>QRDYFGAHTYELLAQPGQFIHTNWTGHGGTVSSSSSYNA |
| Formulation           | Tris-based buffer50% glycerol  |
| Storage               | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br><br>Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.  |

## Background

Catalyzes the oxidative decarboxylation of 6-phosphogluconate to ribulose 5-phosphate and CO<sub>2</sub>, with concomitant reduction of NADP to NADPH.

## References

Identification of a cDNA encoding 6-phosphogluconate dehydrogenase from a human heart cDNA library.Tsui S.K.W., Chan J.Y., Wayne M.M.Y., Fung K.-P., Lee C.-Y.Biochem. Genet. 34:367-373(1996)Research Topic:Metabolism

Note: This product is for in vitro research use only