

RPPB2100

Product Information Protein Information

Product SKU:

RPPB2100

Accession:

P52209

Host:

Escherichia Coli.

Protein description:

PGD Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 503 amino acids (1-483) and having a molecular mass of 55.3 kDa. PGD Human is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Appearance:

Sterile Filtered colorless solution.

Synonyms:

EC 1.1.1.44, 6PGD, PGDH, 6-phosphogluconate dehydrogenase decarboxylating, PGD.

Formulation:

The PGD solution (1mg/ml) contains 10% Glycerol, 1mM DTT, 0.1M NaCl, and 20mM Tris-HCl buffer (pH 8.0).

Purity:

Greater than 90.0% as determined by SDS-PAGE.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid Sequence:

MGSSHHHHHH SGLVPRGSH MAQADIALIG LAVMGQNLIL NMNDHGFVVC AFNRTVSKVD DFLANEAKGT
KVVAQSLKE MVSCLKKPRR IILLVKAGQA VDDFIEKLVV LLDTGDIID GGNSEYRDTT RRCRDLKAKG
ILFVSGVSG GEEGARYGPS LMPGGNKEAW PHIKTIFQGI AAKVGTGEPD CDWVGDEGAG HFVKMVHNGI
EYGDMQLICE AYHLMKDVLG MAQDEMAQAF EDWNKTELDS FLIEITANIL KFQDTEGKHL LPKIRDSAGQ
KGTGKWTAS ALEYGVPVTL IGEAVFARCL SSLKDERIQA SKKLKGPQKF QFDGDKKSFL EDIRKALYAS
KIISYAQGFV LLRQAATEFG WTLNYGGIAL MWRGGCIIRS VFLGKIKDAF DRNPELQNL LDDFFKSAVE
NCQDSWRRVAV STGVQAGIPM PCFTTALSFY DGYRHEMLPA SLIQAQRDYF GAHTYELLAK PGQFIHTNWT
GHGGTVSSSS YNA

Biological Activity:

Specific activity is > 10unit/mg. One unit will oxidize 1.0 umole of 6-phospho-D-gluconate to D-ribulose 5- phosphate per minute at pH 8.0 at 25°C, in the presence of beta-NADP.