

32-2776: PYCRL Recombinant Protein

Alternative Name : Pyrroline-5-carboxylate reductase 3,P5C reductase 3,P5CR 3,Pyrroline-5-carboxylate reductase-like protein,PYCRL.

Description

Source : Escherichia Coli. PYCRL Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 297 amino acids (1-274) and having a molecular mass of 31kDa.PYCRL is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Pyrroline-5-Carboxylate Reductase Like (PYCRL) is a member of the pyrroline-5-carboxylate reductase family and acts as a homodecamer. PYCRL plays a key role in proline biosynthesis. Proline serves as a non-enzymatic antioxidant to reduce damage caused by reactive oxygen species (ROS) in microorganisms, animals and plants. In the final stage of proline biosynthesis, PYCRL catalyzes the reduction of aldehyde dehydrogenase 4A1 (ALDH4A1) to proline with NAD(P)H as the cofactor.

Product Info

Amount : 10 µg

Purification : Greater than 90.0% as determined by SDS-PAGE.

Content : The PYCRL solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 50% glycerol and 2mM DTT.

Storage condition : 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 : MGSSHHHHHH SSGLVPRGSH MGSMAAAEPS PRRVGFVGAG RMAGAIAQGL IRAGKVEAQH
ILASAPTDRN LCHFQALGCR TTHSNQEVQL SCLLVIFATK PHVLPVLAEL VAPVVTTEHI LVSVAAGVSL
STLEELLPPN TRVLRVLPNL PCVVQEGAIV MARGRHVGSS ETNLLQHLL ACGRCEEVPE AYVDIHTGLS
GSGVAFVCAF SEALAEGAVK MGMPSSLAHR IAAQTLLGTA KMLLHEGQHP AQLRSDVCTP GGTTIYGLHA
LEQGGLRAAT MSAVEAATCR AKELSRK.

