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PYCRL Human

Catalog #:ENPS-685

For research use only.

Description: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.

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

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MGSMAAAEPS PRRVGFVGAG RMAGAIAQGL IRAGKVEAQH ILASAPTDRN LCHFQALGCR TTHSNQEVLQ SCLLVIFATK PHVLPAVLAE VAPVVTTEHI LVSVAAGVSL STLEELLPPN TRVLRVLPNL PCVVQEGAIV MARGRHVGSS ETNLLQHLLE ACGRCEEVPE AYVDIHTGLS GSGVAFVCAF SEALAEGAVK MGMPSSLAHR IA

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

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

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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
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 bio-synthesis. 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.

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