
Product Data Sheet

Product Name: PDXP Human
 Cat. No.: GP22066
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CIN; PLP; PLPP; EC 3.1.3.74.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MARCERLRGA ALRDVLGRAQ GVLFD CDGVL WNGERAVPGA PELLERLARA GKAALFVSNN SRRARPELAL RFARLGFGL RAEQLFSSAL CAARLLRQRL PGPPDAPGAV FVLGG EGLRA ELRAAGLRLA GDPSAGDGAA PRVRAVLVGY DEHFSFAKLR EACAHLRDPE CLLVATDRDP WHPLSDGSRT PGTGSLAAAV ETASGRQALV VGKPSYMF E CITENFSIDP ARTLMVGDRL ETDILFGHRC GMTTVLTLTG VSRLEEAQAY LAAGQHDLVP HYYVESIADL TEGLED.		
Formulation	1mg/ml solution containing 20mM Tris pH-8, 1mM DTT, 0.1M NaCl & 20% glycerol.		

Introduction

PDXP is the active form of vitamin B6 that functions as a coenzyme in preserving biochemical homeostasis. The desired degradation route from PLP to 4-pyridoxic acid involves the dephosphorylation of PLP by PDXP. PDXP shows activity to pyridoxal 5''-phosphate (PLP), pyridoxine 5''-phosphate (PMP) and Pyridoxine 5''-phosphate (PNP), with a highest activity with PLP followed by PNP.

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.

Background

PDXP Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 316 amino acids (1-296 a.a.) and having a molecular mass of 33.8 kDa.

Caution: Product has not been fully validated for medical applications. For research use only.

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The PDXP is fused to 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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