
Product Data Sheet

Product Name: PDXK Human
 Cat. No.: GP22577
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Pyridoxal kinase; Pyridoxine kinase; PDXK; C21orf124; C21orf97; PKH; PNK; PRED79; FLJ31940; FLJ37311; MGC15873; MGC31754; MGC52346; DKFZp566A071.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHEEEECR VLSIQSHVIR GYVGNRAATF PLQVLGFEID AVNSVQFSNH TGYAHWKGQV LNSDELQELY EGLRLNNMKNK YDYVLTGYTR DKSFLAMVVD IVQELKQQNP RLVYVCDPVL GDKWDGEGSM YVPEDLLPVY KEKVVPLADI ITPNQFEAELLSGRKIHSQE EALRVMDMLH SMGPDTVIT SSDLPSPQGS NYLIVLGSQR RRNPAGSVVM ERIRMDIRKV DAVFVGTGDL FAAMLLAWTH KHPNNLKVAC EKTVSTLHHV LQRTIQCAKA QAGEGVRPSP MQLELRMVQS KRDIEDPEIV VQATVL.		
Formulation	The PDXK solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT and 10% glycerol.		

Introduction

PDXK converts vitamin B6 to Pyridoxal-5-phosphate (PLP), which is a vital cofactor in the intermediate metabolism of amino acids and neurotransmitters. PDXK is cytoplasmic and probably acts as a homodimer. The biological validity of the alternatively spliced transcript variants has not been determined.

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

PDXK Human Recombinant fused with a 24 amino acid His tag at N-terminus produced in

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

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E.Coli is a single, non-glycosylated, polypeptide chain containing 336 amino acids (1-312 a.a.) and having a molecular mass of 37.6kDa. The PDXK is purified by proprietary chromatographic techniques.

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