

PDXP, 1-296aa, Human, His tag, E.coli

Cat.NO.: TP03338

3th Edition

Synonyms:Pyridoxal phosphate phosphatase, CIN, PLP, PLPP.

Description:Pyridoxal phosphate phosphatase, also known as PDXP is the enzyme belongs to the family of hydrolases, specifically those acting on phosphoric monoester bonds. PDXP catalyzes the dephosphorylation of pyridoxal 5'-phosphate and exhibits a high level of expression various parts of the central nervous system, especially the brain. PDXP activity is catalyzed by haloacid dehalogenase (HAD), and it is the cofactor of both aromatic L-amino acid decarboxylase and glutamate decarboxylase.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 0.1M NaCl

Molecular Weight:33.8 kDa (316aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMARCERLRGAALRDVLRGAQGVLFDCDGVWNGERAVPGAPELLERLARAGKA
ALFVSNNSRRARPELALRFARLGFGLRAEQLFSSALCAARLLRQRLPGPPDAPGAVFVLGGEGRLRAELRAAGLRL
AGDPSAGDGAAPRVRAVLVGYDEHFSFAKLREACAHLRDPECLLVATDRDPWHPLSDGSRTPGTGLAAAVETAS
GRQALVVGKPSPYMFECITENFSIDPARTLMVGDRLTDILFGHRCGMTTVLTLTGVSRLLEEAQAYLAAGQHDLVP
HYYVESIADLTEGLED

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.