

**Dopa decarboxylase, 1-480 aa Human, His-tagged, Recombinant, E.coli**

**Cat.NO.: TP01914**

3th Edition

**Synonyms:**DDC, AADC, Aromatic L-amino acid decarboxylase, L-Dopa decarboxylase

**Description:**Dopa decarboxylase, also known as DDC, is a homodimeric, pyridoxal phosphate dependent enzyme. Dopa decarboxylase is a protein implicated in 2 metabolic pathways, synthesizing 2 important neurotransmitters: dopamine and serotonin which both play key roles in many clinical disorders, including Parkinson's disease.

**Form:**Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 2mM DTT 10% glycerol.

**Molecular Weight:**56.4 kDa (503aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHTRSMNASEFRRRGKEMVDYVANYMEGIEGRQVYVPDVEPGYLRPLIPAAAPQEPD  
TFEDIINDVEKIIMPVTHWHSPYFFAYFPTASSYPAMLADMLCGAIGCIGFSWAASPACTELETVMMDWLGKMLEL  
PKAFLNEKAGEGGGVIQGSASEATLVALLAARTKVIHRLQAASPELTQAAIMEKLVAYSSDQAHSSVERAGLIGGVK  
LKAIPSDGNFAMRASALQEALERDKAAGLIPFFMVATLGTTCSSFDNLLEVGPICNKEDIWLHVDAAYAGSAFICPE  
FRHLLNGVEFADSFNPNPHKWLLVNFDCSAMWVKKRTDLTGAFRLDPTYLKHSHQDGLITDYRHWQIPLGRRFR  
SLKMWFVFRMYGVKGLQAYIRKHVQLSHEFESLVRQDPRFEICVEVILGLVCFRLKGSNKVNEALLQRINSAKKIHLV  
PCHLRDKFVLRFAICSRTVESAHVQRAWEHKELAADVLAERE

**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.