
Product Data Sheet

Product Name: HPD Mouse
 Cat. No.: GP21803
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	4-hydroxyphenylpyruvate dioxygenase; 4-hydroxyphenylpyruvic acid oxidase; 4HPPD; HPD; HPPDase; F Alloantigen; F protein.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMTTYNNK GPKPERGRFL HFHSVTFWVG NAKQAASFYC NKMGEPLAY RGLETGSREV VSHVIKQGKI VFVLCALNP WNKEMGDHLV KHGDGVKDIA FEVEDCDHIV QKARERGAKI VREPWVEQDK FGKVKFAVLQ TYGDTTHTLV EKINYTGRFL PGFEAPTYKD TLLPKLPRCN LEIIDHIVGN QPDQEMQSAS EWYLKLNLFH RFWSVDDTQV HTEYSSLRSI VVTNYEESIK MPINEPAPGR KKSQIQEYVD YNGGAGVQHI ALKTEDIITA IRHLRERGTE FLAAPSYYK LLRENLSAK IQVKESMDVL EELHILVDYD EKGYLLQIFT KPMQDRPTLF LEVIQRHNNHQ GFGAGNFNSL FKAEEEEQAL RGNLTDLEPN GVRSGM.		
Formulation	HPD protein solution (0.5mg/ml) contains 10% glycerol & 20mM Tris-HCl (pH 8.0).		

Introduction

HPGD is the essential enzyme of prostaglandin degradation. 15-PGDH protein strongly decreases the biologic activity of these molecules by catalyzing the oxidation of the 15-hydroxyl group of prostaglandins to a keto group. GDH1 is involved in numerous physiologic and cellular processes, for instance inflammation.

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

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

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HPD Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 416 amino acids (1-393 a.a) and having a molecular mass of 47.4kDa. HPD is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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