Product Data Sheet

Product Name:	HPGD Mouse
Cat. No.:	GP21805
Batch No.:	1

Product Data

Purity	>98%	Source	E.coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	15-hydroxyprostaglandin dehydrogenase [NAD(+)] (EC:1.1.1.141); 15-PGDH; Hpgd; Pgdh1; Prostaglandin dehydrogenase 1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMHVNGKV ALVTGAAQGI GKAFAEALLL HGAKVALVDW NLEAGVKCKA ALDEQFEPQK TLFVQCDVAD QKQLRDTFRK VVDHFGRLDI LVNNAGVNNE KNWEQTLQIN LVSVISGTYL GLDYMSKQNG GEGGIIINMS SLAGLMPVAQ QPVYCASKHG IIGFTRSAAM AANLMKSGVR LNVICPGFVD TPILESIEKE ENMGQYIEYK DQIKAMMKFY GVLHPSTIAN GLINLIEDDA LNGAIMKITA SKGIHFQDYD ISPLLVKAPL TS.		
Formulation	The HPGD solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.		

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

HPGD Mouse Recombinant produced in E. coli is a single polypeptide chain containing 292 amino acids (1-269) and having a molecular mass of 31.6kDa. HPGD is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

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