
Product Data Sheet

Product Name: HDHD2 Human
 Cat. No.: GP21785
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Haloacid Dehalogenase-like Hydrolase Domain Containing 2; DKFZP564D1378; 3110052N05Rik; DKFZp564D1378.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MAACRALKAV LVDLSGTLHI EDAAVPGAQE ALKRLRGASV IIRFVTNTTK ESKQDLLERL RKLEFDISED EIFTSLTAAR SLLERKQVRP MLLVDDRALP DFKGIQTS DP NAVVMGLAPE HFHYQILNQA FRLLLDGAPL IAIHKARYYK RKDGLALGPG PFVTALEYAT DTKATVVGKP EKTFLEALR GTGCEPEEAV MIGDDCRDDV GGAQDVGMLG ILVKTGKYRA SDEEKINPPP YLTCEFPHA VDHILQHLL		
Formulation	The HDHD2 protein solution (1mg/1ml) is formulated in 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 1mM DTT, and 10% glycerol.		

Introduction

HDHD2 is a member of the HAD-like hydrolase superfamily which includes L-2-haloacid dehalogenase, epoxide hydrolases and phosphatases. There are two active sites in HDHD2 - an L-2-haloacid dehalogenase and a carboxylate group. The L-2-haloacid dehalogenase active site catalyzes the hydrolytic dehalogenation of D- and L-2-haloalkanoic acids, producing L- and D-2-hydroxyalkanoic acids.

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

HDHD2 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 279

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

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amino acids (1-259a.a.) and having a molecular mass of 30.6kDa.HDHD2 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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