
Product Data Sheet

Product Name: Esterase D Human
 Cat. No.: GP21614
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	S-formylglutathione hydrolase; FGH; Esterase D; ESD; FLJ11763; esterase D/formylglutathione hydrolase.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MALKQISSNK CFGGLQKVFE HDSVELNCKM KFAVYLPPKA ETGKCPALYW LSGLTCTEQN FISKSGYHQS ASEHGLVVIA PDTSPRGCNI KGEDESWDFG TGAGFYVDAT EDPWKTNYRM YSYVTEELPQ LINANFPVDP QRMSIFGHSM GGHGALICAL KNPGKYKSVS AFAPICNPVL CPWGKKAFFSG YLGTDQSKWK AYDATHLVKS YPGSQLDILI DQGKDDQFL DGQLLPDNFI AACTEKKIPV VFRLQEDYDH SYYFIATFIT DHIRHHAKYL NA.		
Formulation	The Esterase-D solution contains 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.		

Introduction

Formylglutathione hydrolase (Esterase D) is a member of the esterase D family. Esterase D is a serine hydrolase involved in the detoxification of formaldehyde. Esterase D is active toward various substrates including O-acetylated sialic acids, and it may possibly be involved in the recycling of sialic acids. Esterase D is used as a genetic marker for retinoblastoma and Wilson's disease.

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

Esterase-D Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 302 amino

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

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acids (1-282 a.a.) and having a molecular mass of 33.6kDa. The Esterase-D is purified by proprietary chromatographic techniques.

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