
Product Data Sheet

Product Name: ADI1 Human
 Cat. No.: GP21363
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	APL1; ARD; FLJ10913; HMFT1638; MTCBP-1; SIPL; 1;2-dihydroxy-3-keto-5-methylthiopentene dioxygenase; Acireductone dioxygenase; Fe-ARD; Membrane-type 1 matrix metalloproteinase cytoplasmic tail-binding protein 1; Submergence-induced protein-like factor.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSSMVL AWYMDDAPGD PRQPHRPDPG RPVGLEQLRR LGVLYWKLDA DKYENDPELE KIRRERNYSW MDIITICKDK LPNYEEKIKM FYEEHLHLLD EIRYILDGSG YFDVRDKEDQ WIRIFMEKGD MVTLPAGIYH RFTVDEKNYT KAMRLFVGEF VWTAYNRPAD HFEARGQYVK FLAQTA.		
Formulation	The ADI1 protein solution (0.5mg/1ml) is formulated in 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

Introduction

Acireductone dioxygenase 1 (ADI1) is a part of the acireductone dioxygenase family of metal-binding enzymes, which are involved in methionine salvage. ADI1 regulates mRNA processing in the nucleus, and carries out different functions depending on its localization. Related pseudogenes have been defined on chromosomes 8 and 20. ADI1 down-regulates cell migration arbitrated by MMP14.

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

ADI1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 216

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

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amino acids (1-179 a.a.) and having a molecular mass of 25.6kDa. ADI1 is fused to a 37 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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