

Recombinant Human ADI1, His-tagged

Cat. No. ADI1-7531H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human ADI1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-179aa
Antigen Description	ADI1 is an enzyme that belongs to the acireductone dioxygenase family of metal-binding enzymes, which are involved in methionine salvage. This enzyme may regulate mRNA processing in the nucleus, and may carry out different functions depending on its localization. Also, it down-regulates cell migration mediated by MMP14.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	25.6 kDa (216aa) confirmed by MALDI-TOF
AA Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSSMVL AWYMDDAPGD PRQPHRPDPG RPVGLEQLRR LGVLYWKLDA DKYENDPELE KIRRERNYSW MDIITICKDK LPNYEEKIKM FYEEHLHLDD EIRYILDGSG YFDVRDKEDQ WIRIFMEKGD MVTLPAGIYH RFTVDEKNYT KAMRLFVGEV VWTAYNRPAD HFEARGQYVK FLAQTA

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Purity	>90% as determined by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml

GENE INFORMATION

Gene Name	ADI1 acireductone dioxygenase 1 [Homo sapiens]
Official Symbol	ADI1
Synonyms	ADI1; acireductone dioxygenase 1; 1,2-dihydroxy-3-keto-5-methylthiopentene dioxygenase; APL1; ARD; FLJ10913; HMFT1638; membrane type 1 matrix metalloproteinase cytoplasmic tail binding protein 1; MTCBP 1; SIPL; submergence induced protein 2; submergence-induced protein-like factor; MT1-MMP cytoplasmic tail-binding protein-1; acireductone dioxygenase (Fe(2+)-requiring); acireductone dioxygenase (Ni(2+)-requiring); membrane-type 1 matrix metalloproteinase cytoplasmic tail binding protein-1; Fe-ARD; MTCBP1; Ni-ARD;
Gene ID	55256
mRNA Refseq	NM_018269
Protein Refseq	NP_060739
MIM	613400

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UniProt ID	Q9BV57
Chromosome Location	2p25.2
Pathway	Cysteine and methionine metabolism, organism-specific biosystem; Cysteine and methionine metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Metabolism of polyamines, organism-specific biosystem; Methionine salvage pathway, organism-specific biosystem;
Function	acireductone dioxygenase [iron(II)-requiring] activity; metal ion binding; oxidoreductase activity; protein binding;

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