

## Product datasheet for **AR50078PU-S**

### Ornithine decarboxylase (1-461, His-tag) Human Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Ornithine decarboxylase (1-461, His-tag) human recombinant protein, 50 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	MGSSHHHHHH SSGLVPRGSH MGSMNCFGNE EFDCHFLDEG FTAKDILDQK INEVSSDDK DAFYVADLGD ILKKHLRWLK ALPRVTPFYA VKCNDKAIV KTLAATGTGF DCASKTEIQL VQSLGVPPER IYANPCKQV SQIKYAANNG VQMMTFDSEV ELMKVARAHP KAKLVLRIAT DDSKAVCRLS VKFGATLRTS RLLERAKEL NIDVGVFSFH VSGGCTDPET FVQAISDARC VFDMGAEVGF SMYLLDIGGG FPGSEVVKLK FEEITGVINP ALDKYFPSDS GVRIIAEPGR YYVASAFTLA VNIIAKKIVL KEQTGSDDDED ESSEQTFMYV VNDGVYGSFN CILYDHAHVK PLLQKRPKPD EKYSSSIWG PTCDGLDRIV ERCDLPEMHV GDWMLFENMG AYTVAASTF NGFQRPTIYY VMGPAWQLM QQFQNPDFPP EVEEQDASTL PVSCAWESGM KRHRAACASA SINV
<b>Tag:</b>	His-tag
<b>Predicted MW:</b>	53.5 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>95% by SDS - PAGE
<b>Buffer:</b>	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol, 0.1M NaCl
<b>Preparation:</b>	Liquid purified protein
<b>Protein Description:</b>	Recombinant human ODC1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Storage:</b>	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_001274117</a>
<b>Locus ID:</b>	4953
<b>UniProt ID:</b>	<a href="#">B4DXF8</a>



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**Cytogenetics:** 2p25.1

**Synonyms:** BABS; NEDBA; NEDBIA; ODC

**Summary:** This gene encodes the rate-limiting enzyme of the polyamine biosynthesis pathway which catalyzes ornithine to putrescine. The activity level for the enzyme varies in response to growth-promoting stimuli and exhibits a high turnover rate in comparison to other mammalian proteins. Originally localized to both chromosomes 2 and 7, the gene encoding this enzyme has been determined to be located on 2p25, with a pseudogene located on 7q31-qter. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Dec 2013]

**Protein Families:** Druggable Genome

**Protein Pathways:** Arginine and proline metabolism, Glutathione metabolism, Metabolic pathways

### Product images:

