abcam

Product datasheet

# Recombinant Human OPRT protein (denatured) ab136379

1 Image

## Description

| | |
|---|---|
| **Product name** | Recombinant Human OPRT protein (denatured) |
| **Purity** | > 90 % SDS-PAGE. |
| **Expression system** | Escherichia coli |
| **Accession** | P11172 |
| **Protein length** | Full length protein |
| **Animal free** | No |
| **Nature** | Recombinant |
| **Species** | Human |
| **Sequence** | MGSSHHHHHH SSGLVPRGSH MAVARAALGP LVTGLYDVQA FKFGDFVLKS GLSSPIYIDL RGIVSRPRLL SQVADILFQT AQNAGISFDT VCGVPYTALP LATVICSTNQ IPMLIRRKET KDYGTKRLVE GTINPGETCL IIEDVVTSGS SVLETVEVLQ KEGLKVTDAI VLLDREQGGK DKLQAHGIRL HSVCTLSKML EILEQQKKVD AETVGRVKRF IQENVFVAAN HNGSPLSIKE APKELSFGAR AELPRIHPVA SKLLRLMQKK ETNLCLSADV SLARELLQLA DALGPSICML KTHVDILNDF TLDVMKELIT LAKCHEFLIF EDRKFADIGN TVKKQYEGGI FKIASWADLV NAHVVPGSGV VKGLQEVGLP LHRGCLLIAE MSSTGSLATG DYTRAAVRMA EEHSEFVVGF ISGSRVSMKP EFLHLTPGVQ LEAGGDNLGQ QYNSPQEVIG KRGSDIIIVG RGIISAADRL EAAEMYRKAA WEAYLSRLGV |
| **Predicted molecular weight** | 54 kDa including tags |
| **Amino acids** | 1 to 480 |
| **Tags** | His tag N-Terminus |

## Specifications

Our **Abpromise guarantee** covers the use of **ab136379** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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| **Applications** | SDS-PAGE |
| **Form** | Liquid |
| **Additional notes** | This product was previously labelled as UMPS |

## Preparation and Storage

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| **Stability and Storage** | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.<br>pH: 8.00<br>Constituents: 12.01% Urea, 0.32% Tris HCl, 20% Glycerol (glycerin, glycerine) |

## General Info

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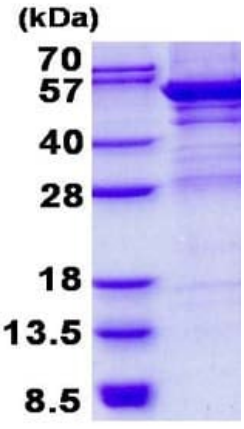
|---|---|
| **Pathway** | Pyrimidine metabolism; UMP biosynthesis via de novo pathway; UMP from orotate: step 1/2.<br>Pyrimidine metabolism; UMP biosynthesis via de novo pathway; UMP from orotate: step 2/2. |
| **Involvement in disease** | Defects in UMPS are the cause of orotic aciduria type 1 (ORAC1) [MIM:258900]. A disorder of pyrimidine metabolism resulting in megaloblastic anemia and orotic acid crystalluria that is frequently associated with some degree of physical and mental retardation. A minority of cases have additional features, particularly congenital malformations and immune deficiencies. |
| **Sequence similarities** | In the N-terminal section; belongs to the purine/pyrimidine phosphoribosyltransferase family.<br>In the C-terminal section; belongs to the OMP decarboxylase family. |

## Images




SDS-PAGE - Recombinant Human OPRT protein (denatured) (ab136379)

15% SDS-PAGE analysis of ab136379 (3 µg).

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