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# Mouse recombinant ENO1 protein, AF

**Catalog Number:** PROTP17182-2

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## Overview

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| Product Name | Mouse recombinant ENO1 protein, AF |
| Description | Enolase 1 (ENO1) also named alpha-enolase which is a glycolytic enzyme that plays the key reactions of glycolysis. It could convert the NAD+ to NADH by producing two ATP. ENO1 is a homodimer which is composed by two isozymes of enolase (2 alpha, 2 n, or 2 beta). It also plays an important role in cancer model which can promote tumor cell proliferation and migration by the PI3K signaling pathway. ENO1 is a biomarker of prognostic and diagnostic cancer. |
| Size | 5ug,20ug,100ug |
| Tag | His Tag (N-term) |
| Form | Lyophilized |
| Source | Escherichia coli |
| Formulation | The protein was lyophilized from a 0.2 um filtered solution containing 7 mM MgSO4 in 1X PBS, pH 7.2 If you have any concerns or special requirements, please confirm with us. |

## Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

## Purity

>98% as determined by SDS-PAGE.

### Molecular weight

The protein has a calculated MW of 47.82 kDa. The protein migrates about 48 kDa under reducing condition (SDS-PAGE analysis).

### Activity

Testing in process

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## Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

## Amino Acid Sequence

SILRIHAREIFDSRGNPTVEVDLYTAKGLFRAAVPSGASTGIYEALELRDNDKTRFMGKGVSQAVEHINKTIAPALVSKKVNVVEQEKIDKLMIEMDGTEN
KSKFGANAILGVSLAVCKAGAVEKGVPLYRHIADLAGNPEVILPVPAFNVINGGSHAGNKLAMQEFMILPVGASSFREAMRIGAEVYHNLKNVIKEKYGK
DATNVGDEGGFAPNILENKEALELLKTAIAKAGYTDQVVIGMDVAASEFYRSGKYDLDFKSPDDPSRYITPDQLADLYKSFVQNYPVVSIEDPFDQDDW
GAWQKFTASAGIQVVGDDLTVTNPKRIAKAASEKSCNCLLLKVNQIGSVTESLQACKLAQSNGWGVMVSHRSGETEDTFIADLVVGLCTGQIKTGAPC
RSERLAKYNQILRIEEELGSKAKFAGRSFRNPLAKwith polyhistidine tag at the N-terminus

## Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile $H_2O$ to aconcentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

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## Usage

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