

## MACROD1 Protein, Human, Recombinant (His)

## General Information

Synonyms:	LRP16;O-acetyl-ADP-ribose deacetylase MACROD1;[Protein ADP-ribosylaspartate] hydrolase MACROD1;[Protein ADP-ribosylglutamate] hydrolase MACROD1;Protein LRP16;MACROD1;ADP-ribose glycohydrolase MACROD1;MACRO domain-containing protein 1
Protein Construction:	1-325 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q9BQ69
Molecular Weight:	41.5 kDa (predicted)
AA Sequence:	MSLQSRSLSGRLAQLRAAGQLLVPPRPRPGHLAGATRTRSSTCGPPAFLGVFGRRARTSAGVGAWGAAVGR TAGVRTWAPLAMAACKVDLSTSTDWKEAKSFLKGLSDKQREEHYFCKDFVRLKKIPTWKEMAKGVAVKVEEP RYKKDKQLNEKISLLRSDITKLEVDIAIVNAANSSLLGGGGVDGCIHRAAGPLLTDECRTLQCKTGKAKITGGY RLPAKYVIHTVGPIAYGEPASQAELRSCYLSLDDLLEHRLRSVAFPCISTGVFGYPCEAAAEIVLATLREWLE QHKDKVDRLLICVFLEKDEDIYRSRLPHYFPVA

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Removes ADP-ribose from asparatate and glutamate residues in proteins bearing a single ADP-ribose moiety. Inactive towards proteins bearing poly-ADP-ribose. Deacetylates O-acetyl-ADP ribose, a signaling molecule generated by the deacetylation of acetylated lysine residues in histones and other proteins. Plays a role in estrogen signaling. Binds to androgen receptor (AR) and amplifies the transactivation function of AR in response to androgen. May play an important role in carcinogenesis and/or progression of hormone-dependent cancers by feed-forward mechanism that activates ESR1 transactivation. Could be an ESR1 coactivator, providing a positive feedback regulatory loop for ESR1 signal transduction. Could be involved in invasive growth by down-regulating CDH1 in endometrial cancer cells. Enhances ESR1-mediated transcription activity.

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