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# DAO Knockout 293T Cell Lysate, Homozygous

**Catalog No.: RM02797**

## Basic Information

**Catalog No.**
RM02797

**Category**
Cell Lysate

**Parental Cell line**
293T

**Genotype**
Knockout

## Background

This gene encodes the peroxisomal enzyme D-amino acid oxidase. The enzyme is a flavoprotein which uses flavin adenine dinucleotide (FAD) as its prosthetic group. Its substrates include a wide variety of D-amino acids, but it is inactive on the naturally occurring L-amino acids. Its biological function is not known; it may act as a detoxifying agent which removes D-amino acids that accumulate during aging. In mice, it degrades D-serine, a co-agonist of the NMDA receptor. This gene may play a role in the pathophysiology of schizophrenia.

## Gene Information

**Gene Symbol**
DAO

**Species**
Human

**Gene ID**
1610

**Swiss Prot**
P14920

**Synonyms**
DAAO; OXDA; DAMOX

## Product Information

**Description**
DAO Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:74bp deletion in exon1
Allele-2:74bp deletion in exon1
Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles. Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins. Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

**Packaging**
1 vial parental cell Lysate and 1 vial knockout cell Lysate

**Shipping Conditions**
4℃

**Amount**
50μL, 2μg/μL.

**Storage**
Store at -20℃

**Protocol**
To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

## Contact


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## Sequencing data

```
WT    CTCTGCATCCATGA**********ACGTGGCTGCCGGC
Mut   CTCTGCATCCATGA***Deletion***ACGTGGCTGCCGGC
Allele-1:    74bp deletion in exon1

WT    CTCTGCATCCATGA**********ACGTGGCTGCCGGC
Mut   CTCTGCATCCATGA***Deletion***ACGTGGCTGCCGGC
Allele-2:    74bp deletion in exon1
```

Genome sequence analysis of PCR products from parental (WT) and DAO knockout (KO) 293T cells, using sanger sequencing.