

Datasheet for ABIN7560245  
**DDO Protein (AA 1-341) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	DDO
Protein Characteristics:	AA 1-341
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DDO protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Ddo Protein expressed in mammalian cells.
Sequence:	MDTVCIAVVG AGVIGLSTAA CISQLVPGCT VTVISDRFTP DTTSNVAAGM LIPHTCADTP VPTQKRWFRE TFEHLSEIAK SAEAADAGVH LVSGWQIFRS VPAEEVPPFWA DVVLGFRKMT EAELKRFPQY VFGQAFTTLK CETSAYLPWL ERRIKSGGGL LLTRIEDLW ELQPSFDIVV NCSGLGSRRL VGDPMISPVR GQVLQARAPW VKHFIRDGGG LTYVYPGMSY VTLGGTRQKG DWNRSPDAEL SREIFSRCCT LEPSLHRAYD IKEKVGLRPS RPGVRLQKEI LVRGQQTLPV VHNYGHGSGG ISVHWGSALE ATRLVMECIH TL RTPASLSK L <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

## Product Details

---

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

---

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
---------	---

---

Grade:	custom-made
--------	-------------

---

## Target Details

---

Target:	DDO
---------	-----

---

Alternative Name:	Ddo ( <a href="#">DDO Products</a> )
-------------------	--------------------------------------

---

Background:	D-aspartate oxidase (DASOX) (DASPO) (DDO) (EC 1.4.3.1),FUNCTION: Selectively catalyzes the oxidative deamination of acidic amino acids (PubMed:17469229, PubMed:18235994, PubMed:20603179, PubMed:20567862, PubMed:25747990, PubMed:26058797, PubMed:26961959, PubMed:28393897, PubMed:29292239, PubMed:32185508, PubMed:32553892, PubMed:37189369). Suppresses the level of D-aspartate in the brain, an amino acid that can act as an agonist for glutamate receptors (PubMed:26961959, PubMed:32185508, PubMed:35915065). Protects the organism from the toxicity of D-amino acids (By similarity). May also function in the intestine (PubMed:35915065). {ECO:0000250 UniProtKB:D3ZDM7, ECO:0000269 PubMed:17469229, ECO:0000269 PubMed:18235994, ECO:0000269 PubMed:20567862, ECO:0000269 PubMed:20603179, ECO:0000269 PubMed:25747990, ECO:0000269 PubMed:26058797, ECO:0000269 PubMed:26961959, ECO:0000269 PubMed:28393897, ECO:0000269 PubMed:29292239, ECO:0000269 PubMed:32185508, ECO:0000269 PubMed:32553892,
-------------	---

---

## Target Details

---

ECO:0000269|PubMed:35915065, ECO:0000269|PubMed:37189369}, FUNCTION: [Isoform 1]: Selectively catalyzes the oxidative deamination of acidic amino acids.  
{ECO:0000269|PubMed:16516413}, FUNCTION: [Isoform 2]: Does not exhibit D-aspartate oxidase activity. {ECO:0000269|PubMed:16516413}.

---

Molecular Weight: 37.5 kDa

---

UniProt: [Q922Z0](#)

## Application Details

---

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

---

Restrictions: For Research Use only

## Handling

---

Format: Liquid

---

Buffer: The buffer composition is at the discretion of the manufacturer.

---

Handling Advice: Avoid repeated freeze-thaw cycles.

---

Storage: -80 °C

---

Storage Comment: Store at -80°C.

---

Expiry Date: 12 months