

## 32-8087: Recombinant Human D-Amino-Acid Oxidase/DAO (N-6His)

**Gene :** DAO  
**Gene ID :** 1610  
**Uniprot ID :** P14920

### Description

Source: E.coli.  
MW :41.64kD.

Recombinant Human D-Amino-Acid Oxidase is produced by our E.coli expression system and the target gene encoding Met1-Leu347 is expressed with a 6His tag at the N-terminus. D-Amino-Acid Oxidase (DAO) belongs to the DAMOX/DASOX family. DAO is a peroxisomal enzyme which functions as a homodimer to oxidizes D-amino acids to the corresponding imino acids, producing ammonia and hydrogen peroxide. D-amino-acid oxidase regulates the level of the neuromodulator D-serine in the brain, has a high activity towards D-DOPA and contributes to dopamine synthesis. D-amino-acid oxidase could act as a detoxifying agent which removes D-amino acids accumulated during aging. It also acts on a variety of D-amino acids with a preference for those having small hydrophobic side chains followed by those bearing polar, aromatic, and basic groups.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, 1mM DTT, 2mM EDTA, pH 8.0 .  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHSSGLVPRGSHMRVVIGAGVIGLSTALCIHERYHVSVLQPLDIKVYADRFTPLTTTDDVAAGLWQ  
PYLSDPNNPQEADWSQQTFDYLLSHVHSPNAENLGLFLISGYNLFHEAIPDPSWKDVLGFRKLTPRELDMFPD  
YGYGWFHTSLILEGKNYLQWLTERLTERGVKFFQRKVESFEEVAREGADVIVNCTGVWAGALQRDPLLQPGRG  
QIMKVDAPWMKHFILTHDPERGIYNSPYIIPGTQTVTLGGIFQLGNWSELNNIQDHNTIWEGCCRLEPTLKNARII  
GERTGFRPVRPQIRLEREQLRTGPSNTEVIHNYGHGGYGLTIHWGCALEAAKLFGRILEEKLSRMPPSHL

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

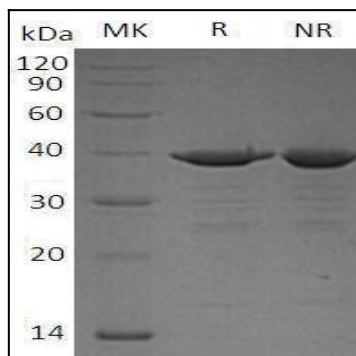


Fig 1: SDS PAGE. R lane is in Reducing conditions, NR is for Non-Reducing.