

## NAox

### NADH oxidase *Thermus thermophilus*, recombinant

#### PRODUCT DESCRIPTION

<b>Description</b>	<p>EC 1.6.99.3</p> <p>Thermostable NADH oxidase from <i>T.thermophilus</i> is expressed in <i>E.coli</i> with a 6xHis tag at N-terminus and then purified. It can oxidize either NADH or NADPH with a preference for NADH. It catalyzes electron transfer from NADH to various electron acceptors which include, in addition to molecular oxygen, cytochrome c, 2,6 dichlorphenolindophenol, methylene blue, ferricyanide or P-nitroblue tetrazolium.</p> <p>Catalytic activity: NADH + acceptor <math>\rightleftharpoons</math> NAD<sup>+</sup> + reduced acceptor.</p>
<b>Specific activity</b>	<p>Enzymatic activity is &gt; 20 units/mg as evaluated for each batch production.</p> <p>One unit is defined as the amount of enzyme that oxidizes 1 μmol of NADH per minute at pH 7,2, at 20°C, for 100μM NADH in presence of 100μM FMN</p>

#### QUALITY CONTROL

<b>Purity</b>	Purity of over-expressed recombinant NAox is greater than 90% as evaluated for each batch production by SDS-PAGE stained with Coomassie Blue.
<b>Concentration</b>	Evaluated by spectrophotometric quantitation (Bradford method).

Catalogue n°	Price (€)*	Size (mg)
NAox-2	700	2
NAox-5	970	5
NAox-10	1300	10
NAox-20	1700	20
	Inquire	➤ 20mg

\*carriage free

#### STORAGE AND PREPARATION

<b>Storage temperature</b>	NADH oxidase is stored as lyophilized powder at -20°C.
<b>Storage buffer</b>	It is recommended to reconstitute the lyophilisate in 25 mM sodium phosphate buffer (pH 7, 5).
<b>Stability</b>	1 year

#### REFERENCES

Analytica Chimica Acta 591 (2007) 80–86  
Sensors and Actuators B 121 (2007) 501–506

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