Nitro reductase (NTR)

Cat. No. NTR-14 **Lot. No.** (See product label)

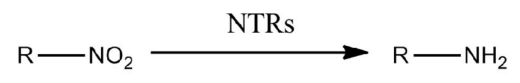
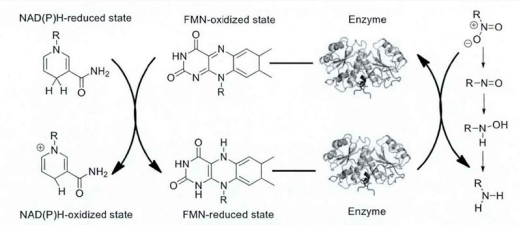
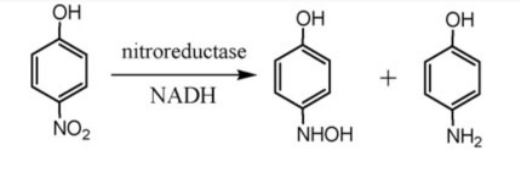
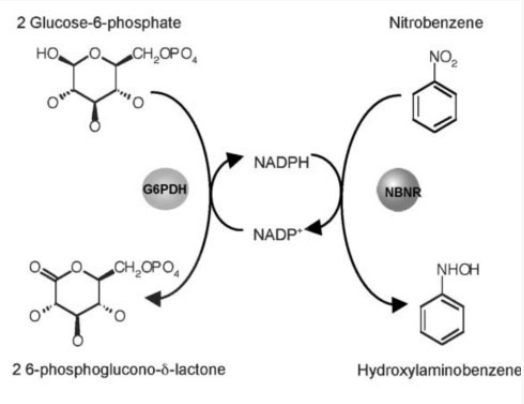
SPECIFICATION

Product Overview	
Description	NTRs: Are flavoenzymes that catalyze the NAD(P)H-dependent reduction of the nitro groups on nitroaromatic and nitroheterocyclic compounds to hydroxylamino and/or amino derivatives. They are widely used in organic synthesis of aromatic hydroxylamine and aromatic amine, tumor therapy, biological detection and the degradation of environmental pollutants.
Applications	1. Normally, the reaction system should include substrate, buffer solution (optimum reaction pH), coenzymes (NAD(H) or NADP(H)), coenzyme regeneration system(e.g. glucose and glucose dehydrogenase) and NTR. 2. All kinds of NTRs corresponding to various optimum reaction conditions should be studied individually. 3. NTR should be added last into reaction system with optimum reaction pH and temperature.
Notes	Never contact with extreme conditions such as: high temperature, high/low pH and high concentration organic solvent.
Storage	Keep 2 years below -20 centigrade.
Advantages	1. Broad substrate spectrum. 2. High conversion. 3. Less by-products. 4. Mild reaction conditions. 5. Environmentally friendly.

GENE INFORMATION

Official Symbol	NTR

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Synonyms	Nitro reductase; NTR
Catalytic reaction type	
Catalytic mechanism	
Application Examples	
Application Examples	

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA