

NIT2 Protein, Arabidopsis thaliana

Cat. No.:	HY-P701988
Synonyms:	NIT2; Nitrilase 2
Species:	Others
Source:	E. coli
Accession:	P32962 (M1-K339)
Gene ID:	823555
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	NIT2 protein possesses the remarkable ability to catalyze the conversion of indole-3-acetonitrile into indole-3-acetic acid, which is a vital plant hormone involved in numerous physiological processes. This transformation is significant as it represents a key step in the biosynthesis of indole-3-acetic acid, a crucial regulator of plant growth and development. NIT2's enzymatic activity contributes to the homeostasis of indole-3-acetic acid levels, which in turn influences plant organogenesis, cell elongation, root development, and responses to environmental stimuli. Understanding the role and regulation of NIT2 protein in this metabolic pathway can provide insights into plant hormone signaling and potentially be harnessed for agricultural applications, such as enhancing crop yield or stress tolerance.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA