



LD Biopharma, Inc.
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- PRODUCT DATA SHEET -

Name of Product: Recombinant Human NAA20 Protein
Catalog Number: hRP-0852
Manufacturer: LD Biopharma, Inc.

Introduction

Human N-alpha-acetyltransferase 20 (NAA20) is a component of N-acetyltransferase complex B (NatB). Human NatB performs cotranslational N (alpha)-terminal acetylation of methionine residues when they are followed by asparagine. NatB activities has been linked to regulate mTOR signaling pathway, which involved in many tumorigenesis.

Full-length human NAA20 (178 aa, Isoform-A) gene was constructed with 15 aa N-terminal T7 tag and expressed in E.coli as inclusion bodies. The final product was refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified.

Gene Symbol: NAA20 (NAT3; NAT5)
Accession Number: NP_057184
Species: Human
Size: 50 µg / Vial
Composition: 1.0 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, sucrose and DTT.
Storage: In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.

Key References

Evjenth,R., *Human Naa50p (Nat5/San) displays both protein N alpha- and N epsilon-acetyltransferase activity.* J. Biol. Chem. 284 (45), 31122-31129 (2009)

Starheim,K.K., et al., *Identification of the human N(alpha)-acetyltransferase complex B (hNatB): a complex important for cell-cycle progression.* Biochem. J. 415 (2), 325-331 (2008)

Jiang,B., et al., *Peptide mimic isolated by autoantibody reveals human arrest defective 1*



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overexpression is associated with poor prognosis for colon cancer patients. Am. J. Pathol. 177 (3), 1095-1103 (2010)

Applications

1. May be used for in vitro NatB mediated cell cycle regulation study with intracellular delivery of this protein.
2. As soluble / native protein, may be used as enzymatic substrate protein for kinase and ubiquitin assay development.
3. May be used for mapping NAA20 protein-protein interaction.
4. Potential diagnostic biomarker for cancer.
5. May be used as antigen for specific antibody development.

Quality Control

1. Purity: > 90% by SDS-PAGE.

Recombinant Protein Sequence

MASMTGGQQMGRGEFMTTLRAFTCDDLFRFNNINLDPLTETYGIPFYLQYLAHWPEYFIVAEAP
GGELMGYIMGKAEGSVAREEWHGHVTALSVAPEFRRLGLAAKLMELLEISERKGGFFVDFVVR
VSNQVAVNMYKQLGYSVYRTVIEYYSASNGEPDEDAYDMRKALSRDTEKKSIIPLPHPVRPEDI
E