

Recombinant Human NODAL Protein, His-tagged

Cat. No. NODAL-2494H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human NODAL Protein (Ala27-Leu347) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ala27-Leu347
Description	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate the mature protein, which regulates early embryonic development. This protein is required for maintenance of human embryonic stem cell pluripotency and may play a role in human placental development. Mutations in this gene are associated with heterotaxy, a condition characterized by random orientation of visceral organs with respect to the left-right axis.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 40.4 kDa Accurate Molecular Mass: 40 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	NODAL nodal homolog (mouse) [Homo sapiens (human)]
Official Symbol	NODAL
Synonyms	NODAL; nodal homolog (mouse); nodal, mouse, homolog; nodal homolog; HTX5; MGC138230;
Gene ID	4838
mRNA Refseq	NM_018055

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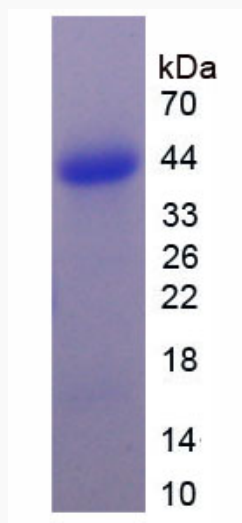
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Protein Refseq NP_060525

MIM 601265

UniProt ID Q96S42



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