

Recombinant Mouse Nodal Protein, His-tagged

Cat. No. Nodal-1833M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Nodal Protein (His245-Leu354) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	His245-Leu354
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. Homozygous knockout mice for this gene exhibit early embryonic lethality, while expression of a hypomorphic allele results in defects in anteroposterior and left-right patterning.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 12.9 kDa Accurate Molecular Mass: 17 kDa
Purity	> 97%

 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

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	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 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 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Nodal
Synonyms	NODAL; nodal; transgenic lethal 413.d; early embryo mesoderm formation; Tg.413d;
Gene ID	18119
mRNA Refseq	NM_013611
Protein Refseq	NP_038639
UniProt ID	P43021

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