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Produktinformation



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Zuschläge

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PRODUCT INFORMATION



NR4A3 Ligand-binding Domain (human, recombinant)

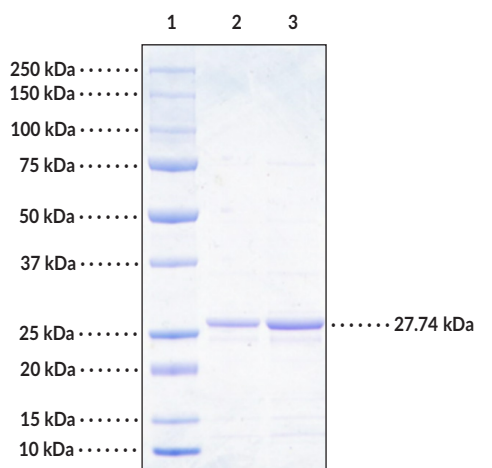
Item No. 40344

Overview and Properties

Synonyms:	Mitogen-induced Nuclear Orphan Receptor, Neuron-derived Orphan Receptor 1, Nuclear Hormone Receptor NOR-1, Nuclear Receptor Subfamily 4 Group A Member 3
Source:	Recombinant human N-terminal His-tagged NR4A3 expressed in <i>E. coli</i>
Amino Acids:	398-626
Uniprot No.:	Q92570
Molecular Weight:	27.74 kDa
Storage:	-80°C (as supplied)
Stability:	≥1 year
Purity:	≥80% estimated by SDS-PAGE
Supplied in:	50 mM Tris HCl, pH 7.5, with 100 mM sodium chloride, and 2% glycerol
Protein Concentration:	<i>batch specific</i> mg/ml

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Images



Lane 1: MW Markers
Lane 2: NR4A3 Ligand-binding Domain (2 µg)
Lane 3: NR4A3 Ligand-binding Domain (4 µg)

SDS-PAGE Analysis of NR4A3 Ligand-binding Domain.

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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PRODUCT INFORMATION



Description

Nuclear receptor subfamily 4 group A member 3 (NR4A3) is a transcription factor and member of the NR4A orphan nuclear receptor family.^{1,2} It is composed of an N-terminal activation function-1 (AF-1) transactivation domain, a DNA-binding domain, a variable linker region, and a C-terminal domain comprising a ligand-binding domain and an AF-2 domain. NR4A3 is primarily expressed in the fetal brain and lungs and adult heart and skeletal muscle, with both splice variants showing similar expression patterns.^{3,4} It is involved in several biological processes, including apoptosis, differentiation, metabolism, inflammation, cardiac remodeling, and development, and its expression can be induced by several factors such as growth factors, cytokines, and stress.^{1,2} Knockout of *Nr4a3* inhibits GM-CSF- and IL-4-induced differentiation of primary mouse monocytes into dendritic cells.⁵ Overexpression of NR4A3 reduces infarct size as a percentage of the area at risk in a mouse model of acute myocardial infarction.⁶ Fusion proteins of NR4A3 with Ewing sarcoma protein (EWS) or TAF15 are associated with extraskeletal myxoid chondrosarcoma.⁷

References

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