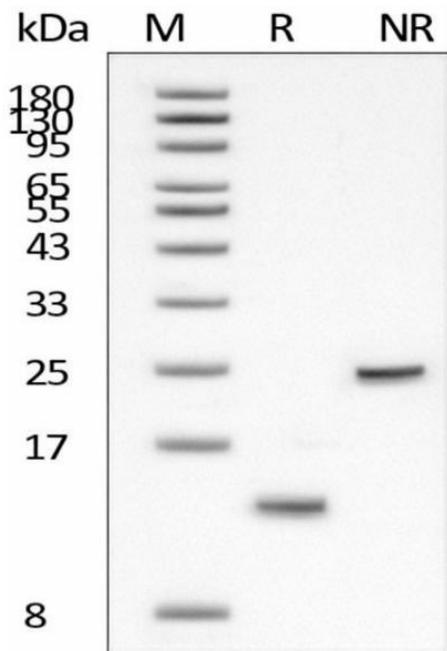


Product Data Sheet

**Human Recombinant Activin A Protein**

Catalog Number: ORF.GF.ACTIVINA

Product Details	
<b>Product Name</b>	Human Recombinant Activin A Protein
<b>Catalog Numbers</b>	ORF.GF.ACTIVINA-10, ORF.GF.ACTIVINA-50, ORF.GF.ACTIVINA-100, ORF.GF.ACTIVINA-500, ORF.GF.ACTIVINA-1000
<b>Sizes</b>	10 µg, 50 µg, 100 µg, 500 µg, 1000 µg
<b>Species</b>	Human
<b>UniProt ID</b>	P08476
<b>Product Form</b>	Lyophilized

Product Description	Product Image
<p>Activin A is a key member of the TGF-<math>\beta</math> superfamily, essential for proper development and produced by various cell types. It functions as a bioactive disulfide-linked homodimer, binding to Activin receptors (RIA, RIB, RIIA, RIIB) to activate SMAD signaling pathways. This signaling regulates processes such as stem cell maintenance, differentiation, B-cell proliferation, wound healing, metabolism, and gonadal development.</p> <p>It is synthesized as a precursor, then cleaved to form a mature A chain, which dimerizes to become active. Its activity is tightly regulated by decoy receptors, secreted inhibitors (e.g., Follistatin), and alternative subunit incorporation. In research, recombinant Activin A is widely used to support stem cell proliferation and drive differentiation into endodermal and pancreatic lineages.</p>	

*For research applications only. Not for diagnostic or therapeutic use.*



Product Specifications		
<b>Protein Description</b>	116-amino acid mature Activin A protein consisting of residues Gly311 to Ser426	
<b>Expression System</b>	Available Upon Request	
<b>Amino Acid Sequence</b>	GLECDGKVN I CCKKQFFVSF KDIGWNDWII APSGYHANYC EGECP SHIAG TSGSSLSFHS TVINH YRMRG HSPFANKSC CVPTKLRPMS MLYYDDGQNI IKKDIQNMIV EECGCS	
<b>Molecular Weight</b>	SDS-PAGE	13 kDa
<b>Purity</b>	SDS-PAGE	> 95%
<b>Endotoxin</b>	LAL	< 1 EU/microgram
<b>Bioactivity</b>	Determined by a cell proliferation assay using MPC-11 cells.	Biologically Active

Product Preparation	
<b>Shipping Temperature</b>	Ambient
<b>Form</b>	Lyophilized
<b>Reconstitution Instructions</b>	Reconstitute with sterile deionized water.

Storage and Stability		
	Temperature	Storage Time
<b>Lyophilized Form</b>	-20°C to -80°C	12 months
<b>Reconstituted Form</b>	2°C to 8°C	1 month
<b>Reconstituted Form</b>	-20°C to -80°C	3 months

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