

Product datasheet for **TP728143**

Recombinant Activin A, Human/Mouse/Rat

Product data:

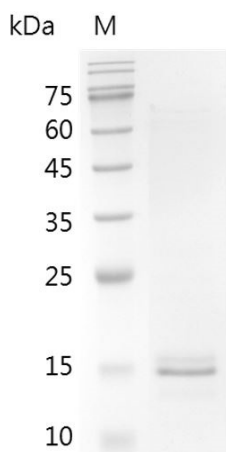
Product Type:	Recombinant Proteins
Description:	Recombinant Activin A, Human/Mouse/Rat
Species:	Human/Mouse/Rat
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	GLECDGKVNICCKKQFFVFSKDIGWNDWIIAPSGYHANYCEGECPSHIAGTSGSSLSFHSTVINHYRMRGH SPFANLKSCCVPTKLRPMSMLYYDDGQNIKKDIQNMIVEECGCS
Tag:	Tag Free
Predicted MW:	The protein has a calculated MW of 13.1 kDa. The protein migrates as 15 kDa under reducing condition (SDS-PAGE analysis).
Purity:	>95% as determined by SDS-PAGE.
Buffer:	The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 7.4.
Bioactivity:	Measure by its ability to inhibit the proliferation of mouse MPC-11 cells. The ED ₅₀ for this effect is <10 ng/mL. The specific activity of recombinant human Activin A is approximately >1.0 x 10 ³ IU/mg.
Endotoxin:	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution Method:	Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.
Applications:	Cell culture
Storage:	Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.
UniProt ID:	P08476
Synonyms:	Inhibin beta A chain, Activin beta-A chain, Erythroid differentiation protein



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Summary:

Activin is the member of the TGF beta superfamily of cytokines. The current understanding of Activin A is classified as a hormone, a Growth Factors, and a cytokine. Depending on the different cell type, that overexpression of Activin A can either inhibit or promote cells division. There are important implications for tumor biology. Activin A also increase joint inflammation in rheumatoid arthritis (RA) and induces pathogenic mechanisms in the respiratory system.

Product images:

SDS- PAGE analysis of recombinant human/mouse/rat Activin A