

Activin A, Human/Mouse/Rat, Recombinant

Cat. No. : PCK270

General Information

Synonyms	Inhibin beta A chain;Activin beta-A chain;Erythroid differentiation protein
Species	Human/Mouse/Rat
Expression host	E.coli
Sequence	GLECDGKVNICCKKQFFVSFKDIGWNDWIIAPSGYHANYCEGECPSHIAGTSGSSLSFHSTVIN HYRMRGHSPFANLKSCCVPTKLRPMSMLYYDDGQNIKKDIQNMIVEECGCS
Accession	P08476 (Human), Q04998 (Mouse), P18331 (Rat)
Tag	Tag Free
Mol mass	13.1 kDa
Expiration date	12 months
Bio activity	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.

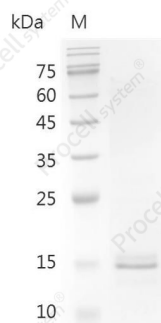
Product feature

Purity	> 95% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°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 -5~-20°C or -80°C for 3-6 months.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 50 mM Tris, 500 mM NaCl, pH 8.5.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

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.

SDS-PAGE



Procell[®]system

Procell[®]system