

Activin A, Human/Mouse/Rat, Recombinant

货号 : PCK270

产品信息

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| 别名 | Inhibin beta A chain, Activin beta-A chain, Erythroid differentiation protein |
| 物种 | Human/Mouse/Rat |
| 表达宿主 | E.coli |
| 序列信息 | MGLECDGKVNICKKKQFFVSFKDIGWNDWIIAPSGYHANYCEGECPSHIAG TSGSSLSFHSTVINHYRMRGHSPFANLKSCCVPTKLRPMSMLYYDDGQNIK KDIQNMIVEECGCS with polyhistidine tag at the C-terminus. |
| 检索号 | P08476(Human), Q04998 (Mouse), P18331(Rat) |
| 分子量 | 13.9 kDa |
| 标签 | His-tag at the C-terminus |
| 生物活性 | Measure by its ability to induce hemoglobin expression in K562 cells. The ED50 for this effect is <0.85 ng/mL. The specific activity of recombinant human Activin A is approximately $>1.4 \times 10^3$ IU/mg. |

产品特性

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| 纯度 | >95% as determined by SDS-PAGE. Ni-NTA chromatography. |
| 内毒素 | <0.1 EU per 1 µg of the protein by the LAL method. |
| 保存 | 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. |
| 运输 | Ambient temperature or ice pack. |
| 制剂 | The protein was lyophilized from a 0.2 µm filtered solution containing 0.1% sarkosyl in 1X PBS, pH 8.0. |



复融

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.

背景介绍

Activin and Inhibin are members of the TGF-beta superfamily of cytokines and are involved in a wide range of biological processes including tissue morphogenesis and repair, fibrosis, inflammation, neural development, hematopoiesis, reproductive system function, and carcinogenesis. Activin is strongly expressed in wounded skin, and overexpression of activin in epidermis of transgenic mice improves wound healing and enhances scar formation. Activin also regulates the morphogenesis of branching organs such as the prostate, lung, and kidney. There is also evidence showed that lack of activin during development results in neural developmental defects.

SDS-PAGE

