

Recombinant Human/Mouse/Rat Activin A Protein

Product Information

Product Name	Cat#	Size
	91702ES10	10 µg
Recombinant Human/Mouse/Rat Activin A Protein	91702ES60	100 µg
	91702ES76	500 µg

Product Description

Activin A, a homodimer of activin β_A subunits, is a member of the transforming growth factor (TGF)- β super-family. Activin A is produced by the placenta during human pregnancy, has been recognized as a multifunctional cytokine expressed in a wide range of tissues and cells with roles in regulation of wound repair, cell differentiation, apoptosis, embryogenesis, and inflammation. The 14 kDa mature human beta A chain shares 100% amino acid sequence identity with bovine, feline, mouse, porcine, and rat beta A. Activin A has been proposed in several pathological processes such as carcinogenesis and fibrosis, and this cytokine may also be involved in the pathogenesis of various inflammatory disorders such as inflammatory bowel disease and rheumatoid arthritis.

Product Properties

Synonyms	Activin A, activin AB alpha polypeptide, erythroid differentiation factor, Erythroid differentiation protein, FSH-releasing protein, inhibin beta A chain
Accession	P08476
GeneID	3624
Source	Insect Cell-derived Human/Mouse/Rat Activin A/Inhibin beta A protein, Gly311 - Ser426.
Molecular Weight	Approximately 26 kDa.
AA Sequence	GLECDGKVNICKKKQFFVSFKDIGWNDWIIAPSGYHANYCEGECPSHIAGTSGSSLFHS TVINHRYMRGHSPFANLKSCCVPTKLRPMSMLYYDDGQNIKKDIQNMIVEECGCS
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 95% by SDS-PAGE analyses.
Biological Activity	Test in processing.
Endotoxin	< 0.1 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris-HCl, pH 8.0, 300 mM NaCl, with 5% Trehalose, 0.02% Tween-20. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	Reconstitute in sterile 10mM HCl to a concentration of 0.1-0.3 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $\leq -20^\circ\text{C}$. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C for 1 year.

1 month, 2 to 8°C under sterile conditions after reconstitution.

3 months, -20°C under sterile conditions after reconstitution.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!