NEUROMICS

Datasheet

Recombinant Human Activin AB CARRIER-FREE

Catalog Number: PR15011CF **Product Type:** Recombinant protein

Source: DNA sequences encoding human Activin βA chain and human βB chain (Mason, A.J. *et al*., 1986, Biochem. Biophys. Res. Commun. **135**:957 - 964) were expressed in CHO cells.

Molecular Mass: The mature recombinant human Activin AB, generated by proteolytic removal of the propeptides, is a disulfide-linked heterodimer of the mature human Activin βA chain and mature human Activin βB chain. Based on N-terminal sequencing, βA chain starts at Gly 311 and βB chain starts at Gly 293. The A and B monomers of recombinant human Activin AB have the same apparent molecular mass of approximately 14 kDa in SDS-PAGE under reducing conditions.

Purity: > 90%, as determined by SDS-PAGE and visualized by silver stain.

Endotoxin Levels: < 1.0 EU per 1 μg of the enzyme as determined by the LAL method.

Activity: Measured by its ability to induce hemoglobin expression in K562 cells (Schwall, R.H. *et al*., 1991, Method Enzymol. **198**:340).

The ED_{50} for this effect is typically 0.5 - 2 ng/mL.

Format: Lyophilized from a 0.2 μm filtered solution in 35% CH_3CN, 0.1% TFA.

Reconstitution: It is recommended that sterile PBS be added to the vial to prepare a working stock solution of no less than 100 μg/mL. The carrier-free protein should be used immediately upon reconstitution to avoid losses in activity due to non-specific binding to the inside surface of the vial. For long term storage as a dilute solution, a carrier protein (*e.g.* 0.1% HSA or BSA) should be added to the vial.

Storage: Lyophilized samples are stable for up to six months at -20° C to -70° C.

Upon reconstitution, this cytokine, in the presence of a carrier protein, can be stored under sterile conditions at 2 - 8° C for one month or at -20° C to -70° C **in a manual defrost freezer** for three months without detectable loss of activity.

Avoid repeated freeze-thaw cycles.