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CRISP1 Human

Description: The CRISP1 Protein Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 238 amino acids (Lys 22 - Lys 249) having a molecular mass of 27kDa.CRISP1 is fused to 10 amino acids His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Synonyms: Cysteine-rich secretory protein 1, ARP, CRISP-1, AEGL1, Acidic epididymal glycoprotein-like 1, HSCRISP1D, HSCRISP1G, HUMARP, AEG-like protein, cysteine-rich secretory protein-1 delta.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence:MKHHHHHHAS KKKSARDQFN KLVTDLPNVQ EEIVNIHNAL RRRVVPPASN MLKMSWSEEA AQNARIFSKY CDMTESNPLE RRLPNTFCGE NMHMTSYPVS WSSVIGVWYS ESTSFKHGEW TTTDDDITTD HYTQIVWATS YLIGCAIASC RQQGSPRYLY VCHYCHEGND PETKNEPYKT GVPCEACPSN CEDKLCTNPC IYYDEYFDCD IQVHYLGCNH STTILFCKAT CL

Purity: Greater than 85% as determined by SDS-PAGE.

Formulation:
The protein was lyophilized from a 0.5mg/ml solution containing 20mM TRIS, 50mM NaCl, pH 7.5.

Stability:
Lyophilized CRISP1 althoμgh stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CRISP1 should be stored at 4°C between 2-7 days and for future use below -18°C.Please prevent freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Applications:
Western blotting, ELISA.

Solubility:
It is recommended to reconstitute the lyophilized CRISP1 in sterile 18M-cm H2O not less than 100

Introduction:
Insemination involves of a series of specific cell-cell interactions concluding in the fusion of the sperm and egg plasma membranes. Recognition, binding, and fusion take place throμgh the interface of complementary molecules which are localized to specific domains of the sperm and egg plasma membranes. In the sperm, the postacrosomal region or equatorial segment is involved in sperm-egg plasma membrane fusion. The protein encoded by this gene belongs to the cysteine-rich secretory protein (CRISP) family. CRISP1 is expressed in the epididymis, is secreted into the epididymal lumen, and binds to the postacrosomal region of the sperm head, where it takes part in sperm-egg fusion.

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