

CRISP1

Recombinant Human Cysteine-Rich Secretory Protein 1 His

Catalog No.	CS435A CS435B CS435C	Quantity:	2 µg 10 µg 1 mg
Alternate Names:	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.		
Description:	<p>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 through 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.</p> <p>The CRISP1 Protein Human produced in <i>E. Coli</i> 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.</p>		
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.		
Gene ID:	167		
Protein Accession No:	P54107		
Source:	<i>E. coli</i>		
Formulation:	The protein was lyophilized from a 0.5 mg/ml solution containing 20 mM TRIS + 50 mM NaCl, pH 7.5.		
Purity:	Greater than 85% as determined by SDS-PAGE.		
Amino Acid Sequence:	<p>MKHHHHHHS KKKSARDQFN KLVTDLPNVQ EEIVNIHNAL RRRVVPPASN MLKMSWSEEA AQNARIFSKY CDMTESNPLE RRLPNTFCGE NMHMTSYPVS WSSVIGVWYS ESTSFKHGEW TTTDDDDITTD HYTQIVWATS YLIGCAIASC RQQGSPRYLY VCHYCHEGND PETKNEPYKT GVPCEACPSN CEDKLCTNPC IYYDEYFDCD IQVHYLGCNH STTILFCKAT CLCDTEIK</p>		
Reconstitution:	It is recommended to reconstitute the lyophilized CRISP1 in sterile distilled water not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.		
Applications:	Western blotting, ELISA.		
Storage & Stability:	Lyophilized CRISP1 although 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.		

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