
Product Data Sheet

Product Name: CRISP1 Human
 Cat. No.: GP23224
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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.		
Amino Acid Sequence	MKHHHHHHAS KKKSARDQFN KLVTDLPNVQ EEIVNIHNAL RRRVVPPASN MLKMSWSEEA AQNARIFSKY CDMTESNPLE RRLPNTFCGE NMHMTSYPVS WSSVIGVWYS ESTSFKHGEW TTTDDDDITTD HYTQIVWATS YLIGCAIASC RQQGSPRYLY VCHYCHEGND PETKNEPYKT GVPCEACPSN CEDKLCTNPC IYYDEYFDCD IQVHYLGCNH STTILFCKAT CLCDTEIK		
Solubility	It is recommended to reconstitute the lyophilized CRISP1 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized from a 0.5mg/ml solution containing 20mM TRIS, 50mM NaCl, pH 7.5.		

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 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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.

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