Recombinant Human CRISP1 Protein, His-tagged

Cat. No. CRISP1-001H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	22-249 a.a.
Description	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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
AA Sequence	MKHHHHHHASKKKSARDQFNKLVTDLPNVQEEIVNIHNALRRRVVPPASNMLKMSW SEEAAQNARIFSKYCDMTESNPLERRLPNTFCGENMHMTSYPVSWSSVIGVWYSE

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	STSFKHGEWTTTDDDITTDHYTQIVWATSYLIGCAIASCRQQGSPRYLYVCHYCHEGNDPETKNEPYKTGVPCEACPSNCEDKLCTNPCIYYDEYFDCDIQVHYLGCNHSTTILFCKATCLCDTEIK
Purity	Greater than 85% as determined by SDS-PAGE.
Applications	WB, ELISA
Storage	Lyophilized CRISP1 although stable at room temperature for 3 weeks, should be stored desiccated below -18 centigrade. Upon reconstitution CRISP1 should be stored at 4 centigrade between 2-7 days and for future use below -18 centigrade. Please prevent freeze-thaw cycles.
Storage Buffer	The protein was lyophilized from a 0.5mg/ml solution containing 20mM TRIS, 50mM NaCl, pH 7.5.

GENE INFORMATION

Gene Name	CRISP1
Official Symbol	CRISP1 cysteine rich secretory protein 1 [Homo sapiens (human)]
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; CRISP1; cysteine rich secretory protein 1; ARP; AEGL1; HUMARP; CRISP-1; HEL-S-57; HSCRISP1D; HSCRISP1G; cysteine-rich secretory protein 1; AEG-like protein; AEG-related protein
Gene ID	167
mRNA Refseq	NM_170609

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Protein Refseq	NP_733758
MIM	601193
UniProt ID	P54107

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