

Active Recombinant Mouse Cysteine-Rich Secretory Protein 4, His-tagged

Cat. No. Crisp4-5612M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Crisp4 protein was expressed in CHO with a C-terminal 6-His tag. Pro22-Lys250.
Species	Mouse
Source	CHO
Protein Length	22-250 a.a.
Description	Crisp4 is one of several CRISPs (cysteine-rich secretory proteins) that contain 16 invariant cysteine residues and show structural homology to snake, insect, and lizard venom proteins. These proteins consist of an N-terminal SCP/CAP domain, a hinge region, and a cysteine-rich CRISP domain. CRISPs are expressed in discrete but overlapping regions of the male reproductive tract and play a role in spermatozoa adhesion with Sertoli cells and oocytes, decapacitation, and the acrosomal reaction.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Leu23
Molecular Weight	27.2 kDa
Activity	Measured by the ability of the immobilized protein to support the adhesion of NTera-2 human testicular embryonic carcinoma cells. The ED50 for this effect is typically 0.3-

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	1.5 µg/mL after 1 hour incubation at 37 °C. Optimal dilutions should be determined by each laboratory for each application.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	34-37kDa, reducing conditions
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 200 µg/mL in PBS
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Crisp4 cysteine-rich secretory protein 4 [Mus musculus]
Official Symbol	Crisp4
Synonyms	Crisp4; cysteine-rich secretory protein 4; 9230112K08Rik; cysteine-rich secretory protein 1; Uncharacterized protein
Gene ID	78081
mRNA Refseq	NM_030033
Protein Refseq	NP_084309

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UniProt ID	Q9D259
Chromosome Location	1 A3; 1
Function	molecular function

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