



Recombinant Human SP-10/ACRV1 Protein [His] (DAGC352)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	A DNA sequence encoding the mature form of human ACRV1 isoform 1 (P26436-1) (Gln 22-Ile 265) was fused with a polyhistidine tag at the C-terminus and a signal peptide at the N-terminus.
Species	Human
Purity	> 90 % as determined by SDS-PAGE
Conjugate	His
Applications	ELISA
Predicted N terminal	Gln 22
Molecular Weight	The recombinant human ACRV1 consists of 255 amino acids and predictes a molecular mass of 27.3 kDa. In SDS-PAGE under reducing conditions, rhACRV1 migrates as an approximately 38 kDa band due to glycosylation.
Endotoxin	< 1.0 EU per ug of the protein as determined by the LAL method
Format	Lyophilized
Size	100 μg
Buffer	Lyophilized from sterile PBS, pH 7.4
Preservative	None
Storage	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

45-1 Ramsey Road, Shirley, NY 11967, USA

Tel: 1-631-624-4882 Fax: 1-631-938-8221

Email: info@creative-diagnostics.com

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BACKGROUND

Introduction

Acrosomal protein SP-1, also known as Acrosomal vesicle protein 1 and ACRV1, is a testis-specific, differentiation antigen, that arises within the acrosomal vesicle during spermatogenesis, and is associated with the acrosomal membranes and matrix of mature sperm. Regulation of cell type-specific gene transcription is central to cellular differentiation and development. During spermatogenesis, a number of testis-specific genes are expressed in a precise spatiotemporal order. The longest transcript of ACRV1 / SP-1 is the most abundant, comprising 53-72% of the total acrosomal vesicle protein 1 messages; the second largest transcript comprises 15-32%; the third and the fourth largest transcripts account for 3.4-8.3% and 8.7-12.5%, respectively; and the remaining transcripts combined account for < 1% of the total acrosomal vesicle protein 1 message. ACRV1 / SP-1 is a testis-specific acrosomal protein that has been detected in several species including humans. It may be involved in sperm-zona binding or penetration, and it is a potential contraceptive vaccine immunogen for humans. ACRV1 / SP-1 may be involved in sperm-zona binding or penetration. It is also a intra-acrosomal protein that is considered to be a vaccine candidate for immunocontraception.

Keywords

ACRV1; acrosomal vesicle protein 1; SP-10; SPACA2; D11S4365; acrosomal protein SP-10; sperm protein 10