

HPV E6/E7 Circular RNA for Cancer Vaccine Research

Catalog Number:CVAC-ORNA-0208

DESCRIPTION	
Product Name	HPV E6/E7 Circular RNA for Cancer Vaccine Research
Gene Name	HPV E6/E7
Source	In vitro transcribed mRNA was further circularized to make this product as a circular RNA.
Alternative names	HPV E6/E7 DNA Vaccine GX-188E
SPECIFICATIONS	
Cap	
5'-UTR	5' -untranslated region derived from human alpha-globin RNA with an optimized Kozak sequence
ORF	HPV E6/E7
3'-UTR	3' UTR comprising two sequence elements derived from the aminoterminal enhancer of split (AES) mRNA and the mitochondrial encoded 12S ribosomal RNA
Poly(A) Tail	
Modifications	N1-methyl-pseudouridine
Neutral Lipid	1,2-distearoyl-sn-glycero-3-phosphocholine (DSPC)
Cholesterol	Cholesterol
Lonizable Lipid	1,2-dimyristoyl-rac-glycero-3-methoxypolyethylene glycol-2000 (PEG2000-DMG)
PEG-lipid	Heptadecan-9-yl 8-((2-hydroxyethyl)(8-(nonyloxy)-8-oxooctyl)amino)octanoate)(SM-102)
Storage	-80 °C
Buffer	PBS, pH7.5
Cryoprotectant	Trehalose
BACKGROUND	
Gene Accession	
Gene Alias	HPV E6/E7 DNA Vaccine GX-188E

resulting in tumor cell lysis. FLT3L is a ligand for the FLT3 tyrosine kinase receptor, which upon activation stimulates the proliferation of hematopoietic progenitor cells. HPV type 16 and 18 are the most common HPV types involved in cervical carcinogenesis. (NCIT_C102787).

Background

Description: A therapeutic DNA vaccine encoding the E6/E7 fusion protein of human papillomavirus (HPV) subtypes 16 and 18, plus the immune-enhancer, Fms-like tyrosine kinase-3 ligand (FLT3L), with potential immunostimulating and antineoplastic activities. DNA vaccine GX-188E is administered using a proprietary delivery system that electroporates the vaccine into cervical cells. Expression of the E6/E7 fusion product may elicit a cytotoxic T-lymphocyte (CTL) response against cervical cancer cells expressing E6 and E7 oncoproteins,