

## VEGFR1-1084 Circular RNA for Cancer Vaccine Research

Catalog Number:CVAC-ORNA-0478

DESCRIPTION	
Product Name	VEGFR1-1084 Circular RNA for Cancer Vaccine Research
Gene Name	VEGFR1-1084
Source	In vitro transcribed mRNA was further circularized to make this product as a circular RNA.
Alternative names	VEGFR1-1084 Peptide Vaccine
SPECIFICATIONS	
Cap	
5'-UTR	5' -untranslated region derived from human alpha-globin RNA with an optimized Kozak sequence
ORF	VEGFR1-1084
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
Ionizable 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	VEGFR1-1084 Peptide Vaccine

cell proliferation. VEGFR1, a receptor tyrosine kinase, may be overexpressed on endothelial cells of the tumor microvasculature and is associated with tumor cell proliferation, invasion and tumor angiogenesis. HLA-A\*2402 is an MHC class I molecule that presents antigenic peptides to CD8+ T cells; epitope design restricted to epitopes that bind most efficiently to HLA-A\*2402 may improve antigenicity. (NCIT\_C77895).

**Background**

Description: A peptide vaccine containing an HLA-A\*2402-restricted epitope of vascular endothelial growth factor receptor 1 (VEGFR1 or Flt-1) with potential immunostimulating, antiangiogenic, and antineoplastic activities. Upon vaccination, VEGFR1-1084 peptide vaccine may stimulate a cytotoxic T lymphocyte (CTL) response against VEGFR1-expressing endothelial cells of the tumor microvasculature, which may inhibit tumor angiogenesis and tumor