

Seattle Genova

Tel: +1 (425) 247-3088 Fax: +1 (425) 650-9990

Email: info@seattle-genova.com Web: www.seattle-genova.com Address: 18110 SE 34TH ST STE 455, Vancouver, WA 98683

PSA/PSMA Circular RNA for Cancer Vaccine Research

Catalog Number:CVAC-ORNA-0371

Gene Name Source Alternative names SPECIFICATIONS Cap 5'-UTR ORF 3'-UTR	PSA/PSMA In vitro transcribed mRNA was further circularized to make this product as a circular RNA. PSA/PSMA DNA Plasmid INO-5150 5' -untranslated region derived from human alpha-globin RNA with an optimized Kozak sequence PSA/PSMA
Alternative names SPECIFICATIONS Cap 5'-UTR ORF	as a circular RNA. PSA/PSMA DNA Plasmid INO-5150 5' -untranslated region derived from human alpha-globin RNA with an optimized Kozak sequence PSA/PSMA
SPECIFICATIONS Cap 5'-UTR ORF	5' -untranslated region derived from human alpha-globin RNA with an optimized Kozak sequence PSA/PSMA
Cap 5'-UTR ORF	optimized Kozak sequence PSA/PSMA
5'-UTR ORF	optimized Kozak sequence PSA/PSMA
ORF	optimized Kozak sequence PSA/PSMA
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	PSA/PSMA DNA Plasmid INO-5150



Seattle Genova

Tel: +1 (425) 247-3088 Fax: +1 (425) 650-9990

Email: info@seattle-genova.com Web: www.seattle-genova.com Address: 18110 SE 34TH ST STE 455, Vancouver, WA 98683

mediated tumor cell death and the inhibition of tumor cell proliferation. PSA and PSMA are overexpressed on a variety of cancer cell types. The DNA encoding the TAAs in INO-5150 is based on both human and other primate antigen gene sequences. As the plasmid genes differ from the human gene sequences encoding these antigens, INO-5150 may overcome immune tolerance to human TAAs. (NCIT_C123283).

Background

Description: A plasmid DNA vaccine encoding the tumor-associated antigens (TAAs) prostate-specific antigen (PSA) and prostate-specific membrane antigen (PSMA), with potential immunoactivating and antineoplastic activities. Upon intramuscular delivery and electroporation of the PSA/PSMA DNA plasmid INO-5150, both PSA and PSMA are translated in cells which then activate the immune system. This induces cytotoxic T-lymphocyte (CTL) responses against tumor cells expressing PSA and PSMA. This may result in both immune-