

## Hsp65/HPV E7 Circular RNA for Cancer Vaccine Research

Catalog Number:CVAC-ORNA-0480

| DESCRIPTION       |   |
|-------------------|---|
| Product Name      | Hsp65/HPV E7 Circular RNA for Cancer Vaccine Research   |
| Gene Name         | Hsp65/HPV E7  |
| Source            | In vitro transcribed mRNA was further circularized to make this product as a circular RNA.  |
| Alternative names | Verpasep Caltespen  |
| SPECIFICATIONS    |   |
| Cap               |   |
| 5'-UTR            | 5' -untranslated region derived from human alpha-globin RNA with an optimized Kozak sequence  |
| ORF               | Hsp65/HPV 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   |
| 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        | Verpasep Caltespen  |
|                   |   |

lymphocytes. (NCI04) (NCIT\_C2811).

#### Background

Description: A recombinant chimeric protein composed of the heat shock protein 65 (Hsp65) from *Mycobacterium bovis*, and the human papilloma viral (HPV) protein E7. Hsp65, similar to other members of its family of proteins, elicits a strong immune response and may be used to design vaccines against a number of different cancers. E7 protein is involved in carcinogenesis of anal and cervical tumors, and represents a tumor antigen that may be specifically targeted by