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

# Tyrosinase-KLH Circular RNA for Cancer Vaccine Research

Catalog Number:CVAC-ORNA-0468

| DESCRIPTION | |
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| Product Name | Tyrosinase-KLH Circular RNA for Cancer Vaccine Research |
| Gene Name | Tyrosinase-KLH |
| Source | In vitro transcribed mRNA was further circularized to make this product as a circular RNA. |
| Alternative names | Tyrosinase-KLH |
| **SPECIFICATIONS** | |
| Cap | |
| 5'-UTR | 5' -untranslated region derived from human alpha-globin RNA with an optimized Kozak sequence |
| ORF | Tyrosinase-KLH |
| 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 | Tyrosinase-KLH |
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| | produce anti-tyrosinase antibodies as well as elicit a cytotoxic T lymphocyte (CTL) response against cells expressing tyrosinase antigen, resulting in decreased tumor growth. (NCIT_C2384). |
| Background | Description: A peptide vaccine containing a tyrosinase epitope conjugated with keyhole lymphocyte hemocyanin (KLH) with potential antineoplastic activity. Tyrosinase, one of the melanoma differentiation antigens, is the rate-limiting enzyme for melanin synthesis. This tyrosine epitope is conjugated with KLH, which serves as an immunostimulant and a hapten carrier, to enhance immune recognition. Vaccination with tyrosinase-KLH peptide vaccine may |