

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

Factor VIII In Vitro Transcribed mRNA-LNP

Catalog Number:SG-MRNA-LNP-1870

mRNA was further encapsulated with LNP(DSPC:Cholesterol:DMG-PEG:SM102). Alternative names Factor VIII SPECIFICATIONS Cap m7GpppN 5'-UTR 5'-untranslated region derived from human alpha-globin RNA with a optimized Kozak sequence ORF Factor VIII 3'-UTR 3'-UTR all UTR comprising two sequence elements derived from the aminoterminal enhancer of split (AES) mRNA and the mitochondrial encoded 12S ribosomal RNA Poly(A) Tail A 110-nucleotide poly(A)-tail consisting of a stretch of 30 adenosine	Product Name	Factor VIII In Vitro Transcribed mRNA-LNP
prepared through in vitro transcription and purification. The purified mRNA was further encapsulated with LNP(DSPC:Cholesterol:DMG-PEG:SM102). Alternative names Factor VIII SPECIFICATIONS Cap m7GpppN 5'-untranslated region derived from human alpha-globin RNA with a optimized Kozak sequence ORF Factor VIII 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 A 110-nucleotide poly(A)-tail consisting of a stretch of 30 adenosine residues, followed by a 10-nucleotide linker sequence and another adenosine residues. 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 -20 °C Buffer PBS, pH7.4 Cryoprotectant Trehalose	Gene Name	Factor VIII
Cap m7GpppN 5'-UTR 5'-untranslated region derived from human alpha-globin RNA with a optimized Kozak sequence ORF Factor VIII 3'-UTR 3'-UTR 3'-UTR omprising two sequence elements derived from the aminoterminal enhancer of split (AES) mRNA and the mitochondrial encoded 12S ribosomal RNA Poly(A) Tail A 110-nucleotide poly(A)-tail consisting of a stretch of 30 adenosine residues, followed by a 10-nucleotide linker sequence and another adenosine residues. 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 -20 °C Buffer PBS, pH7.4 Cryoprotectant Trehalose	Source	prepared through in vitro transcription and purification. The purified mRNA was further encapsulated with LNP(DSPC:Cholesterol:DMG-
Cap m7GpppN 5'-UTR 5'-untranslated region derived from human alpha-globin RNA with a optimized Kozak sequence ORF Factor VIII 3'-UTR 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 A 110-nucleotide poly(A)-tail consisting of a stretch of 30 adenosine residues, followed by a 10-nucleotide linker sequence and another adenosine residues. Modifications N1-methyl-pseudouridine Neutral Lipid 1,2-distearoyl-sn-glycero-3-phosphocholine (DSPC) Cholesterol Cholesterol Cholesterol 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 -20 °C Buffer PBS, pH7.4 Cryoprotectant Trehalose	Alternative names	Factor VIII
5'-UTR 5'-untranslated region derived from human alpha-globin RNA with a optimized Kozak sequence ORF Factor VIII 3'-UTR 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 A 110-nucleotide poly(A)-tail consisting of a stretch of 30 adenosine residues, followed by a 10-nucleotide linker sequence and another residues, followed by a 10-nucleotide linker sequence and another residues. 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 -20 °C Buffer PBS, pH7.4 Cryoprotectant Trehalose BACKGROUND Gene Accession	SPECIFICATIONS	
optimized Kozak sequence ORF Factor VIII 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 A 110-nucleotide poly(A)-tail consisting of a stretch of 30 adenosine residues, followed by a 10-nucleotide linker sequence and another radenosine residues. 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 -20 °C Buffer PBS, pH7.4 Cryoprotectant Trehalose BACKGROUND Gene Accession	Сар	m7GpppN
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 A 110-nucleotide poly(A)-tail consisting of a stretch of 30 adenosine residues, followed by a 10-nucleotide linker sequence and another residues. 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 -20 °C Buffer PBS, pH7.4 Cryoprotectant Trehalose BACKGROUND Gene Accession	5'-UTR	5' -untranslated region derived from human alpha-globin RNA with an optimized Kozak sequence
aminoterminal enhancer of split (AES) mRNA and the mitochondrial encoded 12S ribosomal RNA Poly(A) Tail A 110-nucleotide poly(A)-tail consisting of a stretch of 30 adenosine residues, followed by a 10-nucleotide linker sequence and another adenosine residues. Modifications N1-methyl-pseudouridine Neutral Lipid 1,2-distearoyl-sn-glycero-3-phosphocholine (DSPC) 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 -20 °C Buffer PBS, pH7.4 Cryoprotectant Trehalose BACKGROUND Gene Accession	ORF	Factor VIII
residues, followed by a 10-nucleotide linker sequence and another 7 adenosine residues. Modifications N1-methyl-pseudouridine Neutral Lipid 1,2-distearoyl-sn-glycero-3-phosphocholine (DSPC) 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 -20 °C Buffer PBS, pH7.4 Cryoprotectant Trehalose BACKGROUND Gene Accession	3'-UTR	aminoterminal enhancer of split (AES) mRNA and the mitochondrial
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 -20 °C Buffer PBS, pH7.4 Cryoprotectant Trehalose BACKGROUND Gene Accession	Poly(A) Tail	A 110-nucleotide poly(A)-tail consisting of a stretch of 30 adenosine residues, followed by a 10-nucleotide linker sequence and another 70 adenosine residues.
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 -20 °C Buffer PBS, pH7.4 Cryoprotectant Trehalose BACKGROUND Gene Accession	Modifications	N1-methyl-pseudouridine
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 -20 °C Buffer PBS, pH7.4 Cryoprotectant Trehalose BACKGROUND Gene Accession	Neutral Lipid	1,2-distearoyl-sn-glycero-3-phosphocholine (DSPC)
(PEG2000-DMG) PEG-lipid Heptadecan-9-yl 8-((2-hydroxyethyl)(8-(nonyloxy) – 8-oxooctyl)amino)octanoate)(SM-102) Storage -20 °C Buffer PBS, pH7.4 Cryoprotectant Trehalose BACKGROUND Gene Accession	Cholesterol	Cholesterol
8-oxooctyl)amino)octanoate)(SM-102) Storage -20 °C Buffer PBS, pH7.4 Cryoprotectant Trehalose BACKGROUND Gene Accession	Lonizable Lipid	
Buffer PBS, pH7.4 Cryoprotectant Trehalose BACKGROUND Gene Accession	PEG-lipid	
Cryoprotectant Trehalose BACKGROUND Gene Accession	Storage	-20 °C
BACKGROUND Gene Accession	Buffer	PBS, pH7.4
Gene Accession	Cryoprotectant	Trehalose
	BACKGROUND	
Gene Alias Factor VIII	Gene Accession	
	Gene Alias	Factor VIII



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

ineffective or contraindicated.1 It is not indicated for patients with severe (i.e. type 3) von Willebrand Disease whom are undergoing major surgery.

Background

Factor VIII is indicated for the prevention and control of bleeding in patients with hemophilia A or acquired Factor VIII (FVIII) deficiency. It is also indicated for surgical/invasive procedures in adult and pediatric patients with von Willebrand Disease in who desmopression is either