

Seattle Genova

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Idursulfase In Vitro Transcribed mRNA-LNP

Catalog Number:SG-MRNA-LNP-1906

Idursulfase In Vitro Transcribed mRNA-LNP Iduronate 2-sulfatase The ORF of Idursulfase was cloned in our IVT vector and mRNA was prepared through in vitro transcription and purification. The purified mRNA was further encapsulated with LNP(DSPC:Cholesterol:DMG-
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PEG:SM102).
Idursulfase
m7GpppN
5' -untranslated region derived from human alpha-globin RNA with an optimized Kozak sequence
Idursulfase
3' UTR comprising two sequence elements derived from the aminoterminal enhancer of split (AES) mRNA and the mitochondrial encoded 12S ribosomal RNA
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.
N1-methyl-pseudouridine
1,2-distearoyl-sn-glycero-3-phosphocholine (DSPC)
Cholesterol
1,2-dimyristoyl-rac-glycero-3-methoxypolyethylene glycol-2000 (PEG2000-DMG)
Heptadecan-9-yl 8-((2-hydroxyethyl)(8-(nonyloxy)—8-oxooctyl)amino)octanoate)(SM-102)
-20 °C
PBS, pH7.4
Trehalose
Idursulfase



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lysosomes of various cell types. Idursulfase is a 525-amino acid glycoprotein with a molecular weight of approximately 76 kilodaltons. The enzyme contains eight asparagine-linked glycosylation sites occupied by complex oligosaccharide structures. The enzyme activity of idursulfase is dependent on the post-translational modification of a specific cysteine to formylglycine.

Background

Idursulfase is a purified form of human iduronate-2-sulfatase, a lysosomal enzyme. Idursulfase is an enzyme that hydrolyzes the 2-sulfate esters of terminal iduronate sulfate residues from the glycosaminoglycans dermatan sulfate and heparan sulfate in the