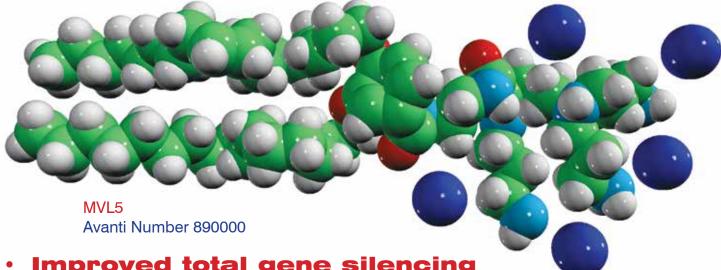
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- Improved total gene silencing
- Lower non-specific gene silencing
- **Lower toxicity**

These attributes establish the multivalent MVL5 as a superior transfection vector for siRNAs, and have implications for the optimal use Click here for of cationic lipids in therapeutic applications. more information

References

Bouxsein, N.F., C.S. McAllister, K.K. Ewert, C.E. Samuel, and C.R. Safinya. (2007). Structure and gene silencing activities of monovalent and pentavalent cationic lipid vectors complexed with siRNA. Biochemistry 46:4785-92.

Ewert, K., A. Ahmad, H.M. Evans, H.W. Schmidt, and C.R. Safinya. (2002). Efficient synthesis and cell-transfection properties of a new multivalent cationic lipid for nonviral gene delivery. J Med Chem 45:5023-9.

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Also refer: Guo, X. and L. Huang. (2012). Recent advances in nonviral vectors for gene delivery. Acc Chem Res 45:971-9.

- DOTAP
- DDAB
- DOTMA

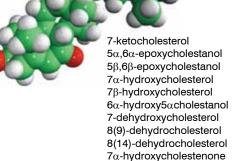
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STEROLS GALORE ALL MADE WITH THE FAMOUS AVANTI® PURTY

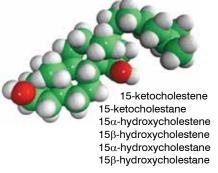
A-ring Substituted

4β-hydroxycholesterol cholesterone zymosterone

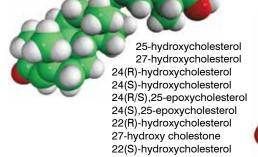
B-ring Substituted



D-ring Substituted



Side Chain Substituted



Double Substituted

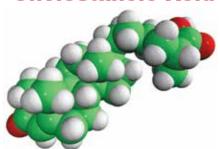


Fluorinated &

ulfonated

 3β ,27-ainyaroxy-5-cnolesten-7-one 7α ,27-dihydroxy-4-cholesten-3-one 7α ,24(S)-diOH-4-cholesten-3-one 7α ,25-dihydroxycholesterol 7α ,24(S)-dihydroxycholesterol 7β ,25-dihydroxycholesterol 7α ,27-dihydroxycholesterol 7β ,27-dihydroxycholesterol 7β ,27-dihydroxycholesterol 5α ,6 β -dihydroxycholestanol

Cholestenoic & Cholestanoic Acid



 3β -hydroxy-7-oxo-5-cholestenoic acid 7α -hydroxy-3-oxo-4-cholestenoic acid $3\beta,7\alpha$ -dihydroxy-5-cholestenoic acid $3\beta,7\beta$ -dihydroxy-5-cholestenoic acid 3β -dihydroxy-5-cholestenoic acid 3-oxo-4-cholestenoic acid trihydroxycholestanoic acid

Deuterated

cholesterol (D7)
desmosterol (D6)
zymosterol (D5)
zymostenol (D7)
14-demethyl-lanosterol (D6)
sitosterol (D6)

lathosterol (D7) lanosterol (D6) dihydrolanosterol (D7) campesterol (D6) 4β-hydroxycholesterol (D7) cholestanol (D5)

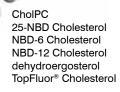
7-ketocholesterol (D7) 5α , 6α -epoxycholestanol (D7) 5β , 6β -epoxycholestanol (D7) 7α -hydroxycholesterol (D7) 7β -hydroxycholesterol (D7) 6α -hydroxycholestanol (D7) 7α -hydroxycholestanol (D7) 7α -hydroxycholesterone (D7) 7α -dehydrocholesterol (D7)

25-hydroxycholesterol (D6)

27-hydroxycholesterol (D6)
24(R/S)-hydroxycholesterol (D7)
24(R/S),25-epoxycholesterol (D6)
22(R)-hydroxycholesterol (D7)
22(S)-hydroxycholesterol (D7)
7α,25-dihydroxycholesterol (D6)
5α,6β-dihydroxycholestanol (D7)
7α,24(R/S)-diOHcholesterol (D7)

F7-cholesterol F7-5α,6α-epoxy cholestanol F7-5β,6β-epoxy cholestanol F7-7-ketocholesterol

F7-7a-hydroxycholesterol F7-7β-hydroxycholesterol 25-OHcholesterol-3-sulfate cholesterol sulfate DHFA sulfate Phosphorylated & Fluorescent



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 Avanti will be Exhibiting
 October, 22 24
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