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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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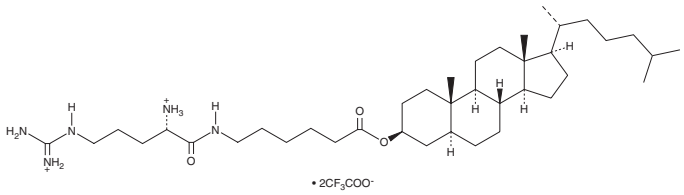
PRODUCT INFORMATION

2H-Cho-Arg (trifluoroacetate salt)

Item No. 25944

CAS Registry No.: 1609010-59-4
Formal Name: (3β-[6-[[(2S)-2-amino-(5α)-[(aminoiminomethyl)amino]-1-oxopentyl]amino]hexanoate], cholestan-3-ol, *bis*(2,2,2-trifluoroacetate)
MF: $C_{39}H_{73}N_5O_3 \bullet 2CF_3COO$
FW: 886.1
Purity: ≥95%
Supplied as: A solution in ethanol
Storage: -20°C
Stability: ≥1 year



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

2H-Cho-Arg (trifluoroacetate salt) is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of 2H-Cho-Arg (trifluoroacetate salt) in these solvents is approximately 50 mg/ml.

2H-Cho-Arg (trifluoroacetate salt) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of 2H-Cho-Arg (trifluoroacetate salt) should be diluted with the aqueous buffer of choice. 2H-Cho-Arg (trifluoroacetate salt) has a solubility of approximately 0.25 mg/ml in a 1:3 solution of ethanol:PBS (pH 7.2) using this method.

Description

2H-Cho-Arg is a steroid-based cationic lipid that contains a 2H-cholesterol skeleton coupled to an L-arginine head group and can be used to facilitate gene transfection.[1] It forms a complex with plasmid DNA (pDNA) and decreases pDNA migration in an electrophoretic mobility shift assay at +/- charge ratios of 4 or higher. 2H-Cho-Arg facilitates transfection of a luciferase gene into H1299 cells, an effect that is reversed by the lipid raft-mediated endocytosis inhibitor methyl-β-cyclodextrin (Item No. 21633) and the caveolae-mediated endocytosis inhibitor genistein (Item No. 10005167), but not by inhibitors of clathrin- or micropinocytosis-mediated endocytosis. It induces cytotoxicity in H1299 cells (IC_{50} = 92.7 µg/ml).

Reference

1. Sheng, R., Wang, Z., Luo, T., *et al.* Skeleton-controlled pDNA delivery of renewable steroid-based cationic lipids, the endocytosis pathway analysis and intracellular localization. *Int. J. Mol. Sci.* **19(2)**, E369 (2018).

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