



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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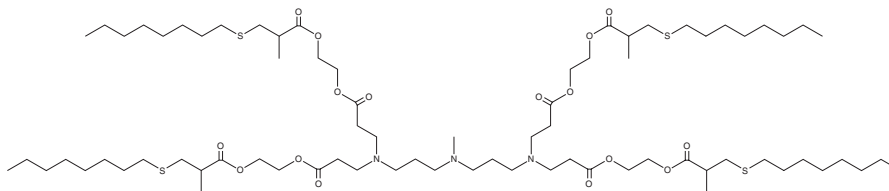
# PRODUCT INFORMATION



## 4A3-SC8

Item No. 38155

CAS Registry No.: 1857340-78-3  
MF:  $C_{75}H_{139}N_3O_{16}S_4$   
FW: 1,467.2  
Purity:  $\geq 95\%$   
Supplied as: A solution in ethanol  
Storage:  $-20^{\circ}C$   
Stability:  $\geq 2$  years



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

### Laboratory Procedures

4A3-SC8 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. 4A3-SC8 is soluble in the organic solvent chloroform.

### Description

4A3-SC8 is an ionizable cationic lipid ( $pK_a = 6.66$ ) and a dendrimer that has been used in the preparation of lipid nanoparticles (LNPs).<sup>1,2</sup> Intratumoral administration of LNPs containing 4A3-SC8 and encapsulating homologous double-strand repair (HDR) elements correct the DNA encoding GFP with a tyrosine-to-histidine mutation at position 66 (GFP<sup>Y66H</sup>) in a HEK293 mouse xenograft model.<sup>2</sup>

### References

1. Zhou, K., Nguyen, L.H., Miller, J.B., *et al.* Modular degradable dendrimers enable small RNAs to extend survival in an aggressive liver cancer model. *Proc. Natl. Acad. Sci. USA* **113**(3), 520-525 (2016).
2. Farbiak, L., Cheng, Q., Wei, T., *et al.* All-in-one dendrimer-based lipid nanoparticles enable precise HDR-mediated gene editing in vivo. *Adv. Mater.* **33**(30), e2006619 (2021).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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