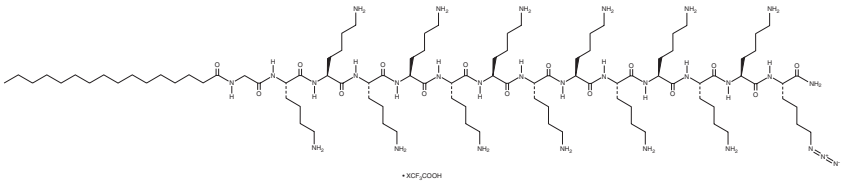
PRODUCT INFORMATION

pGk13a (trifluoroacetate salt)

Item No. 46578

Formal Name:	N-((4S,7S,10S,13S,16S,19S,22S,25S,28S,31S,34S,37S,40S)-4,7,10,13,16,19,22,25,28,31,34,37-dodecakis(4-aminobutyl)-44-azido-40-carbamoyl-2,5,8,11,1-4,17,20,23,26,29,32,35,38-tridecaoxo-3,6,9,12,15,18,21,24,27,30,33,36,39-tridecaazatetratetracontyl)palmitamide, trifluoroacetate salt
Synonym:	Palmitoyl-glycine-(D-lysine)$_{13}$-azide
Peptide Sequence:	palmitoyl-Gkkkkkkkkkkkk-(k-azide)-NH_2
MF:	$C_{96}H_{190}N_{30}O_{15} \bullet XCF_3COOH$
FW:	2,004.8
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

pGk13a (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the pGk13a (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. pGk13a (trifluoroacetate salt) is sparingly soluble (1-10 mg/ml) in DMSO and water.

Description

pGk13a is a membrane-labeling probe.[1] It contains palmitic acid (Item Nos. 10006627 | 43561), which acts as a membrane anchor, conjugated to a poly-D-lysine peptide, which acts as a hydrogel anchor during chemical softening, and an azide group that can be conjugated to fluorophores *via* click chemistry. It has been used in ultrastructural membrane expansion microscopy (umExM) to increase the resolution of confocal microscopy to approximately 60 nm, allowing for the visualization of membranous structures, proteins, and RNA, segmentation of neuronal compartments, and tracing of axons in mouse brain slices.

Reference

1. Shin, T.W., Wang, H., Zhang, C., *et al*. Dense, continuous membrane labeling and expansion microscopy visualization of ultrastructure in tissues. *Nat. Commun.* **16(1)**, 1579 (2025).

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.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 10/28/2026

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM