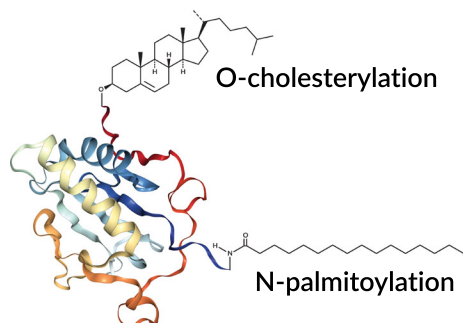
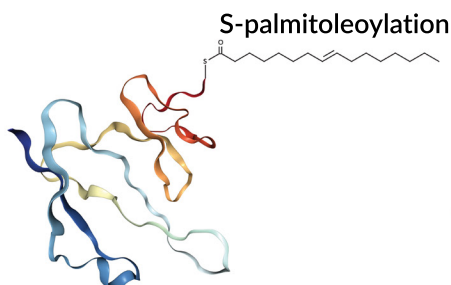


Protein Lipidation

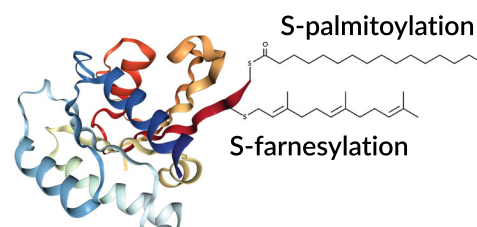
Cayman carries a unique collection of click chemistry probes, substrates, small molecule inhibitors, and antibodies to study the lipidation of proteins. This product line focuses on the covalent modification of proteins *via* fatty acid acylation (e.g., myristoylation or palmitoylation) or prenylation.



Shh



Wnt



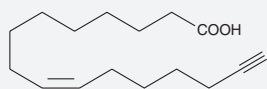
H-Ras

Many proteins are targets for lipid modifications. Sonic hedgehog (Shh) is modified by cholesterylation before undergoing N-palmitoylation. Wnt can be modified by S-palmitoleoylation or O-acylation. The Ras superfamily of GTPases undergoes farnesylation, geranylgeranylation, and S-palmitoylation.

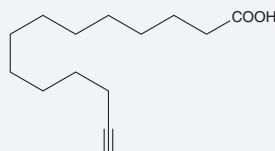
Click Chemistry Probes

Fatty acids modified with either an azide or an ω -terminal alkyne for use in tagging lipidated proteins by simple chemical linking reactions

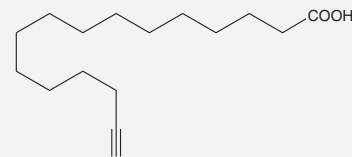
- Label or pull down proteins directly involved in the lipidation process
- Uses the specificity of azide-alkyne bioconjugation reactions for highly reliable readouts
- $\geq 95\%$ purity



Palmitoleic Acid Alkyne
Item No. 25362



Myristic Acid Alkyne
Item No. 13267



Palmitic Acid Alkyne
Item No. 13266

ADDITIONAL PROBES

13038 Alkynyl-biotin
13040 Biotin-azide
13269 Farnesyl Alcohol Azide

13265 4-hydroxy Nonenal Alkyne
15968 Palmitoyl Alkyne-Coenzyme A (trifluoroacetate salt)
13581 Phosphine-biotin

PORCN Inhibitors

Item No.	Product Name
13951	IWP-2
13952	IWP-2-V2
13953	IWP-3
13954	IWP-4
15243	IWP-L6
14072	LGK974
16644	Wnt-C59

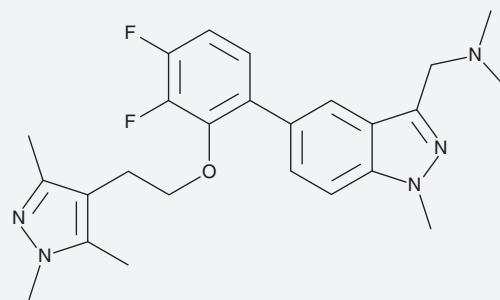
Acyltransferase Antibodies

Item No.	Product Name
15648	HHATL Polyclonal Antibody
14698	MBOAT1 Polyclonal Antibody
15646	MBOAT2 (C-Term) Polyclonal Antibody
15647	MBOAT2 (Internal) Polyclonal Antibody
18614	MBOAT4 Polyclonal Antibody
14699	MBOAT5 Polyclonal Antibody
14702	PORCN Polyclonal Antibody

NEWLY DISCOVERED! Inhibitor Targeting Viral Replication in Host Cells

IMP-1088 - Item No. 25366

- Reduces viral titers in HeLa cells infected with rhinovirus, the virus that most often causes the common cold, without effecting cell growth
- Dually inhibits N-myristoyltransferases NMT1 and NMT2, inhibiting myristoylation of rhinovirus VP0 capsid protein and viral capsid assembly



Depalmitoylase Inhibitors

Item No.	Product Name	Activity
17630	ML-211	Dual inhibitor of LYPLA1 (IC ₅₀ = 17 nM) and LYPLA2 (IC ₅₀ = 30 nM)
18523	ML-348	Reversible, selective LYPLA1 inhibitor (IC ₅₀ = 210 nM)
20923	ML-349	Reversible, selective LYPLA2 inhibitor (IC ₅₀ = 230 nM)

Farnesyltransferase and Geranylgeranyltransferase Inhibitors

Item No.	Product Name	Activity
63260	S-Farnesyl Thioacetic Acid	Inhibits isoprenylated protein methyltransferase
22755	FTase Inhibitor I	Selectively inhibits FTase over GGTase (IC ₅₀ s = 21 and 790 nM, respectively), preventing farnesylation of Ras
22756	GGTI 286 (trifluoroacetate salt)	Selectively inhibits geranylgeranylation of Rap1A over farnesylation of H-Ras in NIH3T3 cells (IC ₅₀ s = 2 and > 30 μM respectively)
16176	GGTI 298 (trifluoroacetate salt)	Inhibits GGTase I with little effect on other prenylation enzymes such as FTase
23418	GGTI 2133	Selectively inhibits GGTase I over FTase (IC ₅₀ s = 38 and 5,400 nM, respectively)
11746	Lonafarnib	Inhibits FTase, blocking the farnesylation of H-Ras, N-Ras, and K-Ras (IC ₅₀ s = 1.9, 2.8, and 5.2 nM, respectively) as well as Rheb (IC ₅₀ = 10-100 nM)
11747	Tipifarnib	Inhibits FTase (IC ₅₀ = 0.86 nM); nonpeptidomimetic, CAAX-competitive
17452	Zaragozic Acid A	Inhibits FTase and GGTase I (IC ₅₀ s = 216 and 50 nM, respectively)
14984	Zoledronic Acid (hydrate)	Inhibits the prenylation of GTPases

View additional FTase and GGTase inhibitors at www.caymanchem.com

Isoprenylcysteine Carboxyl Methyltransferase Inhibitors

Item No.	Product Name	Activity
14744	CAY10677	Inhibits Icmt (IC ₅₀ = 0.86 μM); improved solubility and cell permeability over cysmethynil
14745	Cysmethynil	Inhibits Icmt (IC ₅₀ = <200 nM)

Precursor, Donor, and Substrate to Farnesylation or Geranylgeranylation

Item No.	Product Name	Activity
63180	DMAPP (ammonium salt)	Precursor to farnesyl pyrophosphate biosynthesis
63250	Farnesyl Pyrophosphate (ammonium salt)	A donor in post-translational isoprenylation of proteins
63330	Geranylgeranyl Pyrophosphate (ammonium salt)	A substrate in the prenylation of small GTPases