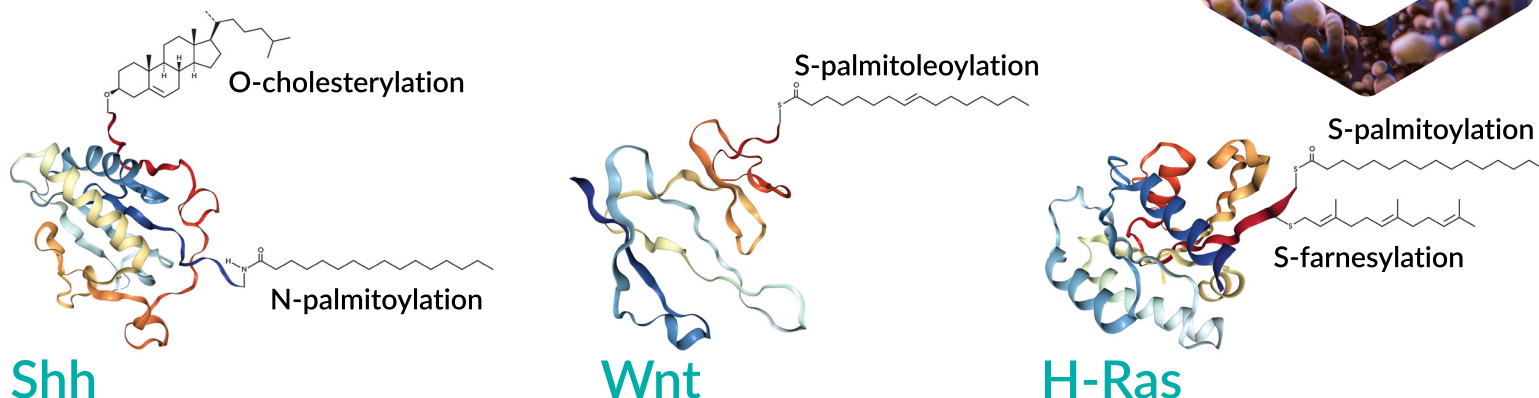


Protein Lipidation

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.



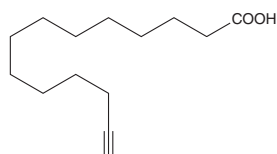
Many proteins are targets for lipid modifications. Sonic hedgehog (Shh) is modified by cholesterylation before undergoing N-palmitoylation. Wnt can be modified by S-palmitoleoylation or O-acylation. The Ras superfamily of GTPases undergoes farnesylation, geranylgeranylation, and S-palmitoylation.

Click Chemistry Probes

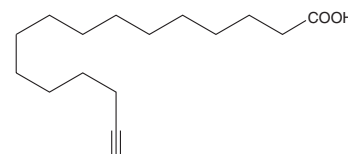
Fatty acids modified with either an azide or an ω -terminal alkyne for use in tagging lipidated proteins by simple chemical linking reactions

- 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

Myristic Acid Alkyne
Item No. 13267



Palmitic Acid Alkyne
Item No. 13266



Additional Probes

13038	Alkynyl-biotin	13265	4-hydroxy Nonenal Alkyne
13040	Biotin-azide	15968	Palmitoyl Alkyne-Coenzyme A (trifluoroacetate salt)
13269	Farnesyl Alcohol Azide	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

Depalmitoylase Inhibitors

Item No.	Product Name	Activity
21866	JCP174	Inhibits the depalmitoylase TgPPT1
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 = 144 nM)

Farnesyltransferase and Geranylgeranyltransferase Inhibitors

Item No.	Product Name	Activity
19502	Arglabin	Inhibits FTase; anticancer activity
63420	α -hydroxy Farnesyl Phosphonic Acid	Inhibits FTase
63260	S-Farnesyl Thioacetic Acid	Inhibits isoprenylated protein methyltransferase
16607	FTase Inhibitor II	Inhibits FTase (IC ₅₀ = 50-75 nM), preventing farnesylation of Ras
16176	GGTI 298 (trifluoroacetate salt)	Inhibits GGTase I with little effect on other prenylation enzymes such as FTase
16428	LB 42708	Inhibits FTase, blocking farnesylation of H-Ras, N-Ras, and K-Ras4B (IC ₅₀ s = 0.8, 1.2, and 2.0 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)
20740	Risedronate (sodium salt)	May inhibit the prenylation of GTPases
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

Isoprenylcysteine Carboxyl Methyltransferase Inhibitors

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

Precursors, 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
13272	Geranylgeranyl Alcohol	A precursor to geranylgeranyl pyrophosphate
63330	Geranylgeranyl Pyrophosphate (ammonium salt)	A substrate in the prenylation of small GTPases



To view a complete list of our protein lipidation products, visit us online at www.caymanchem.com