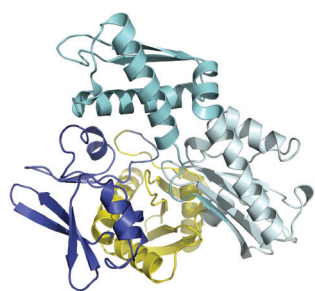
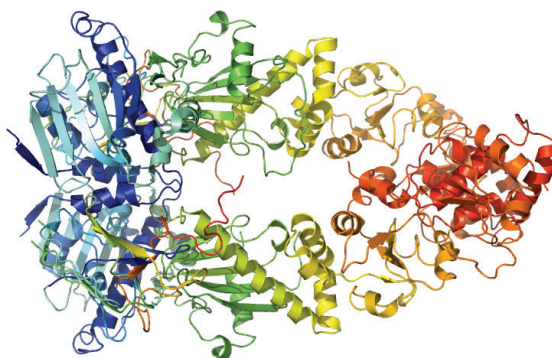


Heat Shock Proteins

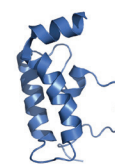
Heat shock proteins (Hsps) play a central role in cellular homeostasis, facilitating protein synthesis and folding throughout the cell as well as participating in protein trafficking, protein degradation, and the regulation of various kinases and transcription factors. Cayman offers a selection of active, recombinant Hsps, co-chaperones, and additional organizing proteins as tools for research in cellular stress and signaling. Also available are inhibitors of Hsp70, Hsp90, the co-chaperone Hsp40, heat shock factor 1 (Hsf1), a heat shock transcription factor, and HDAC6, which regulates Hsp90 acetylation.



Hsc70 ATP-binding domain



Hsp90 dimer



Hsp40

Proteins

Item No.	Product Name	Source	Purity
22730	GRP78 (human recombinant)*	N-terminal His-tagged GRP78 (full length) purified from <i>E. coli</i>	≥85%
22731	HO-1 (human recombinant)	C-terminal His-tagged HO-1 (residues 1-265) purified from <i>E. coli</i>	≥90%
22732	HO-2 (human recombinant)	N-terminal His-tagged HO-2 (residues 2-264) purified from <i>E. coli</i>	≥90%
22733	HOP (human recombinant)	N-terminal His-tagged HOP (full length) purified from <i>E. coli</i>	≥95%
23405	Hsp10 (human recombinant)	N-terminal His-tagged Hsp10 (full length) purified from <i>E. coli</i>	≥90%
22736	Hsp27 (human recombinant)	N-terminal His-tagged Hsp27 (full length) purified from <i>E. coli</i>	≥90%
23406	Hsp40 (human recombinant)	N-terminal His-tagged Hsp40 (full length) purified from <i>E. coli</i>	≥90%
22738	Hsp60 (human recombinant)*	N-terminal His-tagged Hsp60 (full length) purified from <i>E. coli</i>	≥90%
22739	Hsp70 (human recombinant)*	N-terminal His-tagged Hsp70 (full length) purified from <i>E. coli</i>	≥90%
23002	Hsp70 (human recombinant, baculovirus expressed)*	N-terminal His-tagged Hsp70 (full length) purified from baculovirus infected insect cells	≥75%
22737	Hsc70 (human recombinant)	N-terminal His-tagged Hsc70 (full length) purified from <i>E. coli</i>	≥90%
22734	Hsp90α (human recombinant)*	N-terminal His-tagged Hsp90α (full length) purified from <i>E. coli</i>	≥90%
22735	Hsp90β (human recombinant)*	N-terminal His-tagged Hsp90β (full length) purified from <i>E. coli</i>	≥90%

*ATPase activity confirmed by ADP detection assay

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Hsp40 Inhibitors

Item No.	Product Name	Summary
15395	Heat Shock Protein Inhibitor I	Prevents the synthesis of inducible Hsps Hsp105, Hsp72, and Hsp40
22358	Heat Shock Protein Inhibitor II	The active form of Hsp inhibitor I (Item No. 15395) and a benzylidene lactam compound that prevents the synthesis of inducible Hsps, such as Hsp105, Hsp72, and Hsp40

Hsp70 Inhibitors

Item No.	Product Name	Summary
17675	Apoptozole	An inhibitor of Hsp70 that acts by blocking its ATPase activity
14395	MKT-077	Binds to an allosteric site conserved in Hsp70 family members, interfering with ATP hydrolysis
10748	Pifithrin- μ	Interacts selectively with Hsp70, leading to disruption of the association between Hsp70 and many of its co-chaperones and substrate proteins
17257	VER-155008	A selective Hsp70 inhibitor that targets the NBD of Hsp70 and similarly binds the NBDs of Hsp70 Hsp70 cognates ($K_i = 10 \mu\text{M}$) and Grp78 ($K_D = 80 \text{ nM}$)

Hsp90 Inhibitors

Item No.	Product Name	Summary
11039	17-AAG	An Hsp90 inhibitor with potent anti-tumor activity
18269	BIIB021	An orally available inhibitor of Hsp90 ($K_i = 1.7 \text{ nM}$)
11036	17-DMAG	A water-soluble derivative of geldanamycin (Item No. 13355) that potently inhibits Hsp90 ($\text{IC}_{50} = 24 \text{ nM}$)
19432	Ganetespib	A second-generation inhibitor of Hsp90 ($\text{IC}_{50} = 4 \text{ nM}$ in cells)
19149	HSP-990	An inhibitor of Hsp90 (IC_{50} s = 0.6, 0.8, and 8.5 nM for Hsp90 α , Hsp90 β , and GRP94, respectively)
18457	Novobiocin (sodium salt)	Inhibits the chaperone activity of Hsp90
10655	Onalespib	A selective inhibitor of Hsp90 ($\text{IC}_{50} = 18 \text{ nM}$)
18409	PU-WS13	A cell-permeable, selective inhibitor of GRP94 (Hsp90B1; $\text{EC}_{50} = 220 \text{ nM}$)
13089	Radicicol	Inhibits Hsp90 with nanomolar affinity; also inhibits GRP94 through an ATPase domain common to Hsp90

Over 25 Hsp90 inhibitors available online at www.caymanchem.com

HDAC6 Inhibitors

Item No.	Product Name	Summary
21531	ACY-1215	An inhibitor of HDAC6 ($\text{IC}_{50} = 5 \text{ nM}$)
13146	CAY10603	A selective inhibitor of HDAC6 ($\text{IC}_{50} = 0.002 \text{ nM}$)
13174	M 344	Shows a 3-fold selectivity for inhibition of HDAC6 over HDAC1 (IC_{50} s = 88 and 249 nM, respectively)
16874	Nexturastat A	A selective inhibitor of HDAC6 ($\text{IC}_{50} = 5.02 \text{ nM}$)
13691	Tubacin	A selective inhibitor of HDAC6 ($\text{IC}_{50} = 4 \text{ nM}$)
15785	Tubastatin A	A selective inhibitor of HDAC6 ($\text{IC}_{50} = 15 \text{ nM}$)
21099	WT161	A selective inhibitor of HDAC6 ($\text{IC}_{50} = 0.40 \text{ nM}$)

View a complete list of HDAC6 inhibitors online at www.caymanchem.com

Hsf Inhibitor

Item No.	Product Name	Summary
9002528	KRIBB11	An inhibitor of Hsf ($\text{IC}_{50} = 1.2 \mu\text{M}$) that blocks heat shock-induced Hsp70, Hsp40, and Hsp27 expression and downregulates expression of Hsp70 and Hsp27



To view a complete list of our heat shock proteins, visit us online at www.caymanchem.com

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