

UBIQUITIN

Mini-Catalog

WHO WE ARE

SignalChem Biotech Inc. is a Canadian company focused on the research, development, and production of innovative and high-quality human recombinant cell signaling products. Protein modifications by ubiquitin (Ub) or ubiquitin-like proteins (UBLs) participate in many critical cellular processes such as cell-cycle regulation, DNA repair, oncogenesis, antiviral pathways and most notably, proteasomal degradation of target proteins. Thus, the high substrate specificity provided by combinations of over 30 E2's and over 600 E3's makes these enzymes emerging drug targets.



What We Are Good At

Our scientists manufacture active enzymes and novel assays following strict QC/QA standards using our state-of-the-art manufacturing facility.

Highly Trained Team

Superior Quality

In House Manufacturing

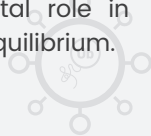
Ubiquitins

Protein modifications mediated by ubiquitin (Ub) or ubiquitin-like proteins (UBLs) are integral to a myriad of pivotal cellular functions, encompassing cell-cycle regulation, DNA repair, oncogenesis, antiviral responses, and most prominently, proteasomal degradation of target proteins. The processes of ubiquitination and modification by UBLs utilize a consistent catalytic cascade, necessitating the ordered involvement of three distinct classes of enzymes: E1 activating enzymes, E2 conjugating enzymes, and E3 ligases. Numerous studies have established a connection between the aberrant regulation of the Ub/UBLs modification system and a plethora of diseases, such as cancer, immunological anomalies, and neurodegenerative conditions. Given this, the exceptional substrate specificity achieved by the collaborative actions of over 30 E2 enzymes and in excess of 600 E3 enzymes positions them as promising therapeutic targets.

Features

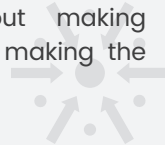
Wide Reaching Impact

From oncogenesis to antiviral defenses, the influence of these protein modifications pervades numerous cellular pathways, reaffirming their pivotal role in maintaining cellular equilibrium.



Remarkable Specificity

Harnessing the potential of over 30 E2 enzymes and more than 600 E3 enzymes, we're looking at unmatched substrate specificity. It's not just about making changes; it's about making the right ones.



Quality, Support, Trust, and Speed

SignalChem offers unmatched quality, a complete support for products that you can trust before you can say Ubiquitins.







Ubiquitin E1

Legends: Best Seller Frequently Cited



Name	Catalog #	Species	Tag	Expression	Sequence	Genbank No.
SAE1/UBA2 Complex, Active	U208-380G	Human	His/GST	Sf9 Cells	Full Length	NM_005500
UBA1 (UBE1), Active	U201-380G	Human	GST	Sf9 Cells	Full Length	NM_003334
UBA6, Active	U206-380G	Human	GST	Sf9 Cells	Full Length	AL832458
UBA7(UBE1L), Active	U207-380G	Human	GST	Sf9 Cells	Full Length	NM_003335
UBA2 (SAE2) Protein	U202-30G	Human	GST	Sf9 Cells	Full Length	NM_005499
UBA3 (UBE1C) Protein	U203-30G	Human	GST	Sf9 Cells	Full Length	BC022853
UBLE1A (SAE1) Protein	U208-30G	Human	GST	Sf9 Cells	Full Length	NM_005500
NAE1 Protein	N209-31H	Human	HIS	Sf9 Cells	2-end	NM_003905
NAE1/UBA3 Complex, Active	U203-380G	Human	His/GST	Sf9 Cells	2-end	NM_003905

Ubiquitin E2

Legends:  Best Seller  Frequently Cited



Name	Catalog #	Species	Tag	Expression	Sequence	Genbank No.
UBE2A, Active	U210-380H	Human	HIS	<i>E.coli</i>	Full Length	NM_003336
UBE2C, Active	U212-380H	Human	HIS	<i>E.coli</i>	Full Length	NM_007019
UBE2D1 (UBCH5A), Active	U213-380H	Human	HIS	<i>E.coli</i>	Full Length	NM_003338
UBE2D2 (UBC4), Active	U214-380H	Xenopus	HIS	<i>E.coli</i>	Full Length	NM_001093036
UBE2D3 (UBCH5C), Active	U215-380H	Human	HIS	<i>E.coli</i>	Full Length	NM_003340
UBE2E1 (UBCH6), Active	U217-380H	Human	HIS	<i>E.coli</i>	2-end	NM_003341
UBE2E3 (UBCH9), Active 	U219-380H	Human	HIS	<i>E.coli</i>	Full Length	NM_006357
UBE2G1 (UBC7), Active 	U221-380H	Human	HIS	<i>E.coli</i>	Full Length	NM_003342
UBE2I (UBC9), Active	U224-380H	Human	HIS	<i>E.coli</i>	Full Length	NM_003345
UBE2K (UBC1), Active	U227-380H	Human	HIS	<i>E.coli</i>	Full Length	NM_005339
UBE2L6 (UBCH8), Active	U229-380H	Human	HIS	<i>E.coli</i>	Full Length	NM_004223
UBE2N (UBC13), Active	U231-380H	Human	HIS	<i>E.coli</i>	2-end	NM_003348
UBE2O, Active	U232-380G	Human	GST	Sf9 Cells	Full Length	BC022237
UBE2B Protein	U211-30H	Human	HIS	<i>E.coli</i>	Full Length	NM_003337
UBE2F Protein	U220-30H	Human	HIS	<i>E.coli</i>	Full Length	NM_080678
UBE2H Protein	U223-30H	Human	HIS	<i>E.coli</i>	Full Length	NM_003344
UBE2J1 Protein	U225-30G	Human	GST	Sf9 Cells	Full Length	BC013973
UBE2L3 (UBCH7) Protein	U228-30H	Human	HIS	<i>E.coli</i>	Full Length	NM_003347
UBE2R1 Protein	U234-30H	Human	HIS	<i>E.coli</i>	Full Length	NM_004359
UBE2R2 (UBC3B) Protein	U235-30H	Human	HIS	<i>E.coli</i>	2-end	NM_017811
UBE2U Protein	U237-30G	Human	GST	Sf9 Cells	Full Length	NM_152489
UBE2V2 Protein	U239-30H	Human	HIS	<i>E.coli</i>	2-end	NM_003350
UBE2W (UBC16) Protein	U240-30G	Human	GST	<i>E.coli</i>	Full Length	BC010900
UBE2Z (USE1) Protein	U241-31H	Human	HIS	<i>E.coli</i>	109-end	NM_023079



Ubiquitin E3

Legends:  Best Seller  Frequently Cited

Name	Catalog #	Species	Tag	Expression	Sequence	Genbank No.
BIRC3, Active	B280-380G	Human	GST	Sf9 Cells	Full Length	NM_001165
BIRC7, Active	B281-380G	Human	GST	Sf9 Cells	Full Length	BC014475
HERC4, Active	H265-381G	Human	GST	Sf9 Cells	642-end	NM_015601
MGRN1, Active	M287-380G	Human	GST	Sf9 Cells	2-end	NM_015246
RanBP2, Active	R230-381H	Human		<i>E.coli</i>	2553-2838	NM_006267
RNF34 (CARP), Active	R296-380G	Human	GST	Sf9 Cells	Full Length	NM_025126
RNF34L (CARP2), Active	R297-380G	Human	GST	Sf9 Cells	Full Length	NM_001017368
TRIM37, Active	T292-380G	Human	GST	Sf9 Cells	Full Length	BC036012
WWP2, Active	W297-380G	Human	GST	Sf9 Cells	Full Length	NM_007014
CBL Protein	C272-381G	Human	GST	<i>E.coli</i>	1-375	NM_005188
CRBN/DDB1 Complex	U274-34H	Human	HIS	Sf9 Cells	Full Length	NM_016302 , NM_001923
CRBN/DDB1/CUL4A/RBX1 Complex	U273-380H	Human	HIS	Sf9 Cells	Full Length	CRBN: Q96SW2 ,DDB1: Q16531 ,CUL4A: Q13619
FANCL Protein	F289-30G	Human	GST	Sf9 Cells	Full Length	NM_018062
Parkin Protein 	P215-30G	Human	GST	Sf9 Cells	Full Length	BC022014
PRPF19 Protein	P270-30G	Human	GST	Sf9 Cells	2-end	NM_014502
STUB1 (CHIP) Protein 	C268-30H	Human	HIS	<i>E.coli</i>	Full Length	NM_005861
TRIM32 Protein	T291-30G	Human	GST	Sf9 Cells	2-end	NM_012210
WWP1 Protein	W296-30G	Human	GST	Sf9 Cells	Full Length	NM_007013
VHL/ELOB/ELOC/CUL2/RBX1 complex, Active	U272-380H	Human	HIS	Sf9 Cells	Full length	VHL: NM_000551.3
VHL/ELOB/ELOC/CUL2/RBX1 complex, Active	U272-380H	Human	HIS	Sf9 Cells	Full length	VHL: NM_000551.3



DUBs



Legends:  Best Seller  Frequently Cited

Name	Catalog #	Species	Tag	Expression	Sequence	Genbank No.
AMSH, Active	A565-380H	Human	HIS	Sf9 Cells	Full Length	NM_006463
BAP1, Active 	B504-30H	Human	HIS	Sf9 Cells	Full Length	NM_004656
CYLD, Active	C578-380G	Human	GST	Sf9 Cells	1-956	NM_015247
JosD2, Active	I560-380H	Human	HIS	<i>E.coli</i>	Full Length	NM_138334
MINDY1, Protein	M531-30G	Human	GST	Sf9 Cells	Full Length	NM_018379
MINDY4, Active	M534-10G	Human	GST	Sf9 Cells	Full length	NM_032222
OTUB1, Protein	O568-30H	Human	HIS	<i>E.coli</i>	Full Length	NM_017670
OTUB2, Active	O569-380H	Human	HIS	<i>E.coli</i>	Full Length	NM_023112
OTUD6B, Protein	O576-30H	Human	HIS	<i>E.coli</i>	Full Length	NM_016023
OTUD7B, Active	O577-381G	Human	GST	Sf9 Cells	1-482	NM_020205
OTULIN, Protein	O585-30H	Human	HIS	<i>E.coli</i>	Full Length	NM_138348
PSMD14 Protein	P501-30G	Human	GST	Sf9 Cells	Full length	NM_005805
SEN1, Active	S531-381H	Human	HIS	<i>E.coli</i>	409-end	NM_001267594
SEN2, Active	S532-381H	Human	HIS	<i>E.coli</i>	360-end	NM_021627
SEN6, Active	S536-380H	Human	HIS	<i>E.coli</i>	637-1112	NM_015571
SEN8, Active	S538-380H	Human	HIS	<i>E.coli</i>	Full Length	NM_145204
TNFAIP3 (A20p37), Active	T563-381H	Human	HIS	Sf9 Cells	440-790 a.a.	NM_006290
UCHL1, Active	U522-380H	Human	HIS	<i>E.coli</i>	Full Length	NM_004181
UCHL3, Active	U524-380H	Human	HIS	<i>E.coli</i>	Full Length	NM_006002
UCHL5, Active	U526-380H	Human	HIS	<i>E.coli</i>	Full Length	NM_001199261
USP1, Active	U501-31G	Human	GST	Sf9 Cells	Full length	NM_003368
USP10, Active	U510-381G	Human	GST	Sf9 Cells	154-798	NM_005153
USP11, Active 	U511-380G	Human	GST	Sf9 Cells	Full Length	NM_004651

Name	Catalog #	Species	Tag	Expression	Sequence	Genbank No.
USP12, Active	U512-31G	Human	GST	Sf9 Cells	full-length	NM_182488
USP14, Protein	U514-30G	Human	GST	<i>E.coli</i>	Full Length	NM_005151
USP15, Active	U515-380G	Human	GST	Sf9 Cells	Full Length	NM_001252078
USP16, Active	U516-381G	Human	GST	Sf9 Cells	187-end	NM_006447
USP2, Active	U502-381H	Human	HIS	<i>E.coli</i>	259-end	NM_004205
USP20, Active	U520-381G	Human	GST	Sf9 Cells	120-end	NM_006676
USP25, Protein	U525-31G	Human	GST	<i>E.coli</i>	162-677 a.a.	NM_013396
USP28, Active	U528-381G	Human	GST	<i>E.coli</i>	155-675a.a.	NM_020886
USP35, Active	U535-381G	Human	GST	Sf9 Cells	395-end	NM_020798
USP46, Protein	U546-30H	Human	HIS	<i>E.coli</i>	Full Length	NM_022832
USP5, Active	U505-380H	Human	HIS	<i>E.coli</i>	Full Length	NM_003481
USP51, Protein	U551-31G	Human	GST	Sf9 Cells	227-end	NM_201286
USP7 (C-Term) Protein	U570-31G	Human	GST	<i>E.coli</i>	560-end	NM_003470
USP7 (N-term), Active	U507-381H	Human	HIS	<i>E.coli</i>	25-580a.a.	NM_003470
USP8, Active	U508-381H	Human	HIS	<i>E.coli</i>	630-end	NM_005154
YOD1, Protein	O572-30H	Human	HIS	<i>E.coli</i>	Full Length	NM_018566

Ubiquitin like Proteins

Legends:  Best Seller  Frequently Cited

Name	Catalog #	Species	Tag	Expression	Sequence	Genbank No.
SUMO1 (UBL1) Protein 	S293-31H	Human	HIS	<i>E.coli</i>	2-97	NM_003352
SUMO2 Protein	S294-31H	Human	HIS	<i>E.coli</i>	1-93	BC008450
SUMO3 Protein	S295-31H	Human	HIS	<i>E.coli</i>	1-92	NM_006936
Ubiquitin Protein 	U06-54N	Human	TAG-Free	<i>E.coli</i>	1-76	NM_018955
ISG15, Protein	I245-31H	Human	HIS	<i>E.coli</i>	2-157 a. a.	NM_005101
NEDD8, Protein	N263-31H	Human	HIS	<i>E.coli</i>	1-76 a. a.	NM_006156

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