

CRYSTALLIZATION OF UBIQUITIN RELATED ENZYMES WITH ACTIVITY BASED PROBES.

An overview with reference to the RCSB Protein Data Bank.

A wide range of deubiquitinating and ubiquitinating enzymes have been crystallized successfully in complex with an activity based probe. An incomprehensive overview is shown in below table.

Enzyme family	Enzyme	Accession Numbers	Year of publication
Ub-Dha			
E2	UBE2D3	5IFR	2016
Ub-PA			
MINDY	MINDY-1 / FAM63A	5JKN , 5JQS	2016
UCH	UCH-L5	4UEL , 4UF6	2015
USP/UBP	USP4, D1D2 domain	2Y6E	2014
vOTU	CCHF	3ZNH	2013
di-Ub probes			
USP	SARS PLpro	5E6J	2016
Ub-VME			
UCH	UCHL1	3KW5	2010
UCH	UCHL3 from PF	2WDT	2009
USP	MCMV M48	2J7Q	2007
UCH	UCHL3	1XD3	2005

All shown probes are readily available from our stock, please refer to our catalogue at page 2. The probes shown in the **green square** are manufactured by **UbiQ only**.

CATALOGUE

Name	Substrate	Electrophile	Code	Link
E1-E2-E3 enzyme probe				
Ub-Dha	Ub	dehydroalanine	UbiQ-101	www.ubiqbio.com/ubiq-101.html
Nedd8-Dha	Nedd8	dehydroalanine	UbiQ-105	www.ubiqbio.com/ubiq-105.html

1st generation DUB probes: target the S1 pocket

Ub-PA	Ub	propargylamide	UbiQ-057	www.ubiqbio.com/ubiq-057.html
Ub-VME	Ub	vinylmethylester	UbiQ-005	www.ubiqbio.com/ubiq-005.html
Ub-VS	Ub	vinylsufone	UbiQ-108	www.ubiqbio.com/ubiq-108.html

2nd generation DUB probes: target the S1 and S1' pockets

K6 diUb-VME	K6 diUb	vinylmethylester	UbiQ-081	www.ubiqbio.com/ubiq-081.html
K11 diUb-VME	K11 diUb	vinylmethylester	UbiQ-082	www.ubiqbio.com/ubiq-082.html
K27 diUb-VME	K27 diUb	vinylmethylester	UbiQ-083	www.ubiqbio.com/ubiq-083.html
K29 diUb-VME	K29 diUb	vinylmethylester	UbiQ-084	www.ubiqbio.com/ubiq-084.html
K33 diUb-VME	K33 diUb	vinylmethylester	UbiQ-085	www.ubiqbio.com/ubiq-085.html
K48 diUb-VME	K48 diUb	vinylmethylester	UbiQ-086	www.ubiqbio.com/ubiq-086.html
K63 diUb-VME	K63 diUb	vinylmethylester	UbiQ-087	www.ubiqbio.com/ubiq-087.html

3rd generation DUB probes: target the S1 and S2 pockets

K63 diUb-PA	K63 diUb	propargylamide	UbiQ-114	www.ubiqbio.com/ubiq-114.html
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tailor made

A series of proprietary techniques give use structural control on all aspects of our reagents, enabling us to construct reagents that are beyond the reach of any currently available alternative approaches.

Please [contact us](#) for more information.

literature

Please refer to the Accession Numbers (RCSB Protein Data Bank ID) mentioned in the overview. www.rcsb.org/pdb/home/home.do