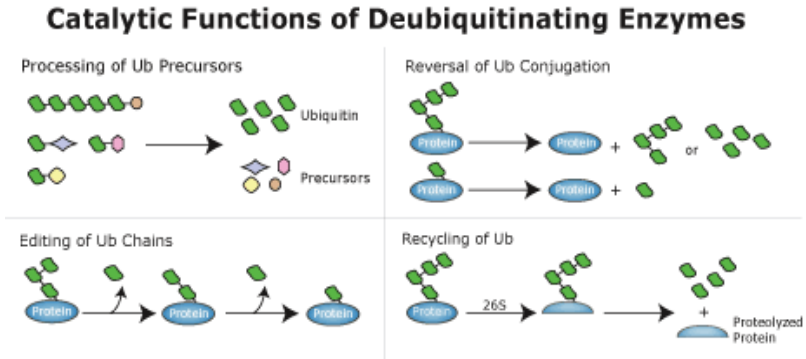
Investigate Deubiquitinating Enzymes (DUBs) in Cell Signalling

Deubiquitinating Enzymes (DUBs) are key regulators of cellular pathways by reversing Ubiquitin-mediated events. Recent studies have revealed that DUBs are dynamic enzymes that partner with various interacting proteins to facilitate both substrate selection and DUB activity. This regulation in the Ubiquitin proteasome system is underscored by the increasing evidence that many DUBs are part of Ubiquitin ligase complexes, which enables DUBs to regulate the activity of many cellular pathways and processes, including:

- Cell Signalling
- Endocytosis
- NF-kB Signalling
- DNA Damage
- Cell Proliferation
- Growth Factor Signalling
- Viral Replication
- Oxidative Stress Signalling
- Apoptosis



Boston Biochem has the best DUB research portfolio. We provide the most trusted products and services supported by the best technical expertise available.

Learn More

	DUB Enzymes	Process
E-546	USP25-His_6	ER degradation
E-548B	AMSH	Endocytosis
E-549	GST-AMSH	Endocytosis
E-550	STAM-1	AMSH activator
E-552	USP9x-His_6	Cancer
E-554	His_6-Otubain-2	ERAD
E-556	His_6-CYLD	NF-kB signalling
E-558	FAM105B/OTULIN	Inflammation
E-560	ZRANB1/Trabid	Wnt signalling
E-562	OTUD7B/Cezanne	Inflammation
E-564	His_6-USP1	DNA damage response
E-566	His_6-UAF1	USP1 activator
E-568	His_6-USP1/UAF1	DNA damage response
E-570	His_6-USP28	Cell proliferation

	DUB Substrates	Description
U-550	Ubiquitin-AMC	Most referenced
U-551	Ubiquitin-AFC	Spectral shift
U-555	Ubiquitin-Rhodamine 110	Industry standard
U-556	Ubiquitin-Aminoluciferin	Sensitivity
U-558	Ubiquitin-Lys-TAMRA	Polarization
UF-210 to -231	Di-Ub (K48-linked) FRET	Isopeptide bond
UF-310 to -330	Di-Ub (K63-linked) FRET	Isopeptide bond
UF-440	Di-Ub (K11-linked) FRET	Isopeptide bond
	DUB Inhibitors	**Enzyme**
U-201	Ubiquitin Aldehyde	PAN DUB
U-203	Ubiquitin-Vinyl Methyl Ester	PAN DUB
U-212	HA-Ubiquitin-Vinyl Sulfone	DUB probe
2647	NSC 632839 Hydrochloride	Cell perm USP9x
3998	LDN 57444	Cell perm UCH-L1

E-519	His_6-USP7	Apoptosis	4088	IU1	Cell perm USP14
E-520	His_6-USP8	Cell signalling	4285	HBX 41108	Cell perm USP7

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USA & Canada
R&D Systems, Inc.
TEL: (800) 343-7475
FAX: (612) 656-440

Europe
R&D Systems Europe, Ltd
TEL: +44 (0)1235 529449
FAX: +44 (0)1235 533420

China
R&D Systems China Co., Ltd.
TEL: +96 (21) 52380373
FAX: +96 (21) 52371001

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