

MATERIAL SAFETY DATA SHEET - Proteins

SECTION 1 - PROTEIN PRODUCT(S) AND SUPPLIER IDENTIFICATION

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Recommended use and restrictions on use

Research use only. Not for clinical or human use.

Quick Identifier: Protein(s)/Enzyme(s)

Product Name	Catalog No.
Human 26S proteasome	A1100, A1101
Bovine 26S proteasome	A1200, A1201
Bovine 19S (PA700)	A1300, A1301
Bovine 20S proteasome	A1400, A1401
Bovine immuno 20S	A1500, A1501
6xHis-PA28alpha	A2100, A2101
6xHis-PA28beta	A2200, A2201
6xHis-PA28gamma	A2300, A2301
GST-S5a	A3300, A3301
S5a	A3310, A3311
6xHis-Adrm1	A3400, A3401
6xHis-Uch37	A3500, A3501
Adrm1/Uch37	A3600, A3601
6xHis-Usp14	A3710, A3711
6xHis-PI31	A3900, A3901
UBE1	B1100, B1101
GST-UBE1	B1110, B1111
6xHis-SAE1/SAE2	B1300, B1301
APPBP1/6xHis-UBA3	B1400, B1401
6xHis-UbE2A (Rad6A)	C1100, C1101
6xHis-UbE2B	C1200, C1201
6xHis-UbE2C (UbcH10)	C1300, C1301
6xHis-UbE2D1 (UbcH5A)	C1400, C1401
6xHis-UbE2D2 (UbcH5B)	C1500, C1501
6xHis-UbE2D3 (UbcH5C)	C1600, C1601
6xHis-UbE2D4 (UbcH5D)	C1700, C1701
6xHis-UbE2E1 (UbcH6)	C1800, C1801
6xHis-Ube2E2 (UbcH8)	C1900, C1901
6xHis-UbE2E3 (UbcH9)	C2000, C2001
6xHis-UbE2F	C2100, C2101
6xHis-UbE2G1	C2200, C2201

Product Name	Catalog No.
6xHis-Ubiquitin (K6 only)	E1820
6xHis-Ubiquitin (K11 only)	E1830
6xHis-Ubiquitin (K27 only)	E1840
6xHis-Ubiquitin (K29 only)	E1850
6xHis-Ubiquitin (K33 only)	E1860
6xHis-Ubiquitin (K48 only)	E1870
6xHis-Ubiquitin (K63 only)	E1880
Ubiquitin (I44A)	E1900
6xHis-Ubiquitin (I44A)	E1910
GST-Ubiquitin (I44A)	E1920
Ubiquitin (L73P)	E1930
6xHis-Ubiquitin (L73P)	E1940
6xHis-ISG15	E2100
6xHis-mISG15-GFP	E2200, E2201
Sumo 1	E3100
GST-Sumo 1	E3110
6xHis-Sumo 1	E3120
Sumo 2	E3200
GST-Sumo 2	E3210
6xHis-Sumo 2	E3220
Sumo 2 (Q90P)	E3230
GST-SUMO 2 (Q90P)	E3240
6xHis-Sumo 2 (Q90P)	E3250
Sumo 3	E3300
GST-Sumo 3	E3310
6xHis-Sumo 3	E3320
6xHis-Nedd8	E4100
Ub aldehyde	F3100
HA-Ub-VME	M1010
Biotin-Ub-PA	M1020
Ubiquitin Vinyl Sulfone (Ub-VS)	M1030



6xHis-UbE2G2	C2300, C2301
6xHis-UbE2H (UbcH2)	C2400, C2401
6xHis-UbE2I	C2500, C2501
GST-UbE2K (E2-25K)	C2800, C2801
6xHis-UbE2L3	C2900, C2901
6xHis-UbE2L6	C3000, C3001
6xHis-UbE2M (UbcH12)	C3100, C3101
6xHis-UbeN (6xHis-	C3200, C3201
6xHis-UbE2Q2	C3400, C3401
6xHis-UbE2R1 (UbcH3, Cdc34)	C3500, C3501
6xHis-UbE2R2	C3600, C3601
6xHis-UbE2S	C3700, C3701
6xHis-UbE2S(1-156)	C3710, C3711
6xHis-UbE2T	C3800, C3801
6xHis-UbE2V2	C3900, C3901
6xHis-Ubc13/UbE2V2	C3910, C3911
6xHis-UbE2W	C4000, C4001
K48-Ub2	D1100, D1101
Fluorescein labeled K48-Ub2	D1110
K48-Ub3	D1200, D1201
K48-Ub4	D1300, D1301
K48-Ub5	D1400
K48-Ub(2-8)	D1500, D1501
Fluorescein labeled K48-Ub(2-10)	D1510
Non-cleavable K48 polyUb Chain (2-6)	D1600, D1601
6xHis-Non-cleavable K48 PolyUb Chain (2-4)	D1700, D1701
K63-Ub2	D2100, D2101
Fluorescein labeled K63-Ub2	D2110
K63-Ub3	D2200, D2201
K63-Ub4	D2300, D2301
K63-Ub5	D2400, D2401
K63-Ub6	D2500, D2501
K63-Ub(2-12)	D2600, D2601
Fluorescein labeled K63-Ub(2-7)	D2610
Non-cleavable K63 polyUb Chain (2-10)	D2700, D2701
6xHis-non-cleavable K63 PolyUb Chain (2-4)	D2800, D2801
K11-Ub2	D3100, D3101
K11-Ub3	D3200
K11-Ub(n≥3)	D3300, D3301
GST-linear Ub2	D4100
GST-linear Ub4	D4110
6xHis-linear Ub4	D5200
6xHis-linear Ub6	D5300
6xHis-linear Ub8	D5400
Linear Ub2	D6100
Non-cleavable linear Ub6	D4400

Cy5-Ub-VME	M1040
Biotin-SUMO2-VME	M2010
Ub-AMC	M3010, M3011
Ub-Rhodamine 110	M3020, M3021, M3022
TAMRA-Lys(Ub)-Gly	M3030
6xHis-TRAIL	U1100
Biotin-TRAIL	U1110
TNFalpha	U1120
GST-TNFalpha	U1130
UCHL1	H1101, H1100
GST-UCHL1	H1110, H1111
UCHL3	H1200, H1211
GST-UCHL3	H1210, H1211
GST-Ataxin3(Q22)	H1610
GST-JOSD2	H1900
OTUB1	H3000, H3001
GST-OTUB1	H3010, H3011
OTUB2	H3100, H3101
GST-OTUB2	H3110, H3111
GST-A20(1-365)	H3210, H3211
OTUD2	H3400
OTUD6B	H3800
6xHis-OTULIN	H4020
Cezanne(53-446)	H4200
6xHis-AMSH	H4500
GST-USP4	H5410
USP7	H5700
GST-USP9X(catalytic domain)	H5910, H5911
GST-USP7	H5710
GST-USP11	H6110
GST-USP15	H6500
6xHis-USP16	H6600
USP21(195-565)	H7110
GST-USP30(57-517)	H7810
GST-USP35	H8410
Mindy-1	H8900
GST-DESI-2	H8970
6xHis-SEN1(catalytic domain)	H9120, H9121
6xHis-SEN2(catalytic domain)	H9220, H9221
6xHis-SEN8	9820, H9821
Anti-6xHis	Y1010, Y1011
Anti-GST	Y1020, Y1021
Anti-GFP	Y1030, Y1031
Anti-GAPDH	Y1040, Y1041
Anti-beta-Actin	Y1050, Y1051
Anti-beta-Tubulin	Y1060, Y1061



6xHis-non-cleavable linear Ub6	D4410
6xHis-non-cleavable linear Ub4	D4430
K6-linked diUb	D5110
K27-linked diUb	D5210
K29-linked diUb	D5310
K33-linked diUb	D5410
Di-Sumo 2	D9100
Sumo 2 Chain (2-6)	D9110
Non-cleavable SUMO2 Chain(2-6)	D9130
GST-RNF4	K1100, K1101
6xHis-CHIP	K1200, K1201
HSP70	K1300, K1301
ITCH	K1400
GST-UbE3A (E6AP)	K1410
UBE3A (E6AP)	K1411
GST-NEDD4	K1420
Ubiquitin	E1100, E1101
Ubiquitin (1-75)	E1110
Ubiquitin (+1)	E1120
15N-labeled Ubiquitin	E1130, E1131
N-terminal Biotin-Ubiquitin	E1140, E1141
Ubiquitin(S20C)	E1150, E1151
Fluorecein labeled Ub	E1155, E1156
N-terminal TAMRA-Ub	E1160, E1161
GST-Ubiquitin	E1200
GST-Ubiquitin(1-75)	E1210
GST-Ubiquitin(+1)	E1220
6xHis-Ubiquitin	E1300, E1301
6xHis-Ubiquitin(1-75)	E1310
6xHis-Ubiquitin(+1)	E1320
HA-Ubiquitin	E1400
6xHis-Ub-GFP	E1500, E1501
Ubiquitin (K0)	E1610
Ubiquitin (K6R)	E1620
Ubiquitin (K11R)	E1630
Ubiquitin (K27R)	E1640
Ubiquitin (K29R)	E1650
Ubiquitin (K33R)	E1660
Ubiquitin (K48R)	E1670
Ubiquitin (K63R)	E1680
6xHis-Ubiquitin (K0)	E1710
6xHis-Ubiquitin (K6R)	E720
6xHis-Ubiquitin (K11R)	E1730
6xHis-Ubiquitin (K27R)	E1740

Anti-bea-Actin (Rabbit mAb)	Y1054, Y1055
Anti-HA	Y1070, Y1071
Anti-V5	Y1080, Y1081
Anti-Myc	Y1090, Y1091
Anti-DYKDDDDK (FLAG)	Y1100, Y1101
Anti-20S proteasome	Y2010, Y2011
Anti-Ubiquitin (P4D1)	Y3011, Y3012, Y3013
Anti-SUMO1	Y3111, Y3112
GST	I1100
GST-hHR23B	I1110, I1111
GST-4xSIM	I1310, I1311
GST-ZnF-UBP	I1400, I1410
6xHis-Znf-UBP	I1410, I1411
GST-NEMO	I1500, I1511
GST-NEMO(L329P)	I1510, I1511
6xHis-NEMO (UBAN)	I1520, I1521
GST-NEMO(UBAN)	I1530, I1531
6xHis-S5a(UIM)	I1610, I1611
GST-S5a(UIM)	I1620, I1621
6xHis-TAB2(ZNF)	I1710, I1711
GST-TAB2(NZF)	I1720, I1721
6xHis-GST-TRABID(NZF1)	I1810, I1811
E2 Screening Kit	J1100
Customized E2 Screening Kit	J1200
Di-Ubiquitin Explorer Kit	J2000
K48 polyUb Chain-binding Protein identification/Validation kit	J2500
K63 polyUb Chain-binding Protein identification/Validation kit	J2510
Linear polyUb Chain-binding Protein identification/Validation kit	J2520
Sumo 1 conjugation kit	J3110
Sumo 2 conjugation kit	J3120
Sumo 3 conjugation kit	J3130
Sumo1, Sumo2, Sumo3 conjugation kit	J3140
Nerdd8 Conjugation kit	J3150
Ubiquitin Lindage Screening Kit I	J3200
Ubiquitin Lindage Screening Kit II	J3210
Ubiquitin Lindage Screening Kit III	J3220
Proteasome Ativity Fluorometric Assay Kit I	J4110
Proteasome Ativity Fluorometric Assay Kit II	J4120
ImmunoProteasome Ativity Fluorometric Assay Kit I	J4160
ImmunoProteasome Ativity Fluorometric Assay Kit II	J4170
Proteasome Inhibitor Screening Kit I	J4210
Rapid 26S Proteasome Purification Kit-s	J4310
Rapid 26S proteasome Purificaiton Kit-L	J4320
26S Proteasome-mediated Protein Degradtion Kit	J4330



6xHis-Ubiquitin (K29R)	E1750
6xHis-Ubiquitin (K33R)	E1760
6xHis-Ubiquitin (K48R)	E1770
6xHis-Ubiquitin (K63R)	E1780
Caspase-8, 10 Activity Fluorometric Assay Kit	J7110
Caspase-9 Activity Fluorometric Assay Kit	J7120
Caspase-3, 7 Activity Fluorometric Assay Kit	J7130

PolySUMO Capture & Release Kit	J4410
Unconjugated polyubiquitin Chain Capture Kit	J4420
K48 PolyUbiquitin Chain Capture Kit	J4430
K63 Polyubiquitin Chain Capture Kit	J4440
Linear Polyubiquitin Chain Capture Kit	J4450
Polyubiquitin Chain Capture Kit	J4460
K29/K33 Polyubiquitin Chain Capture Kit	J4470
Misfolded Protein Ubiquitination Kit	J5110
Loading Control Antibody Kit	J5200
Deubiquitinating Enzyme Set I	J6010
Deubiquitinating Enzyme Inhibitor Profiling Kit I	J6110
Deubiquitinating Enzyme (DUB) Identification Kit	J6210

SECTION 2: PRODUCT INFORMATION

Product Name: Refer to Section 1
 Catalog No.: Refer to Section 1
 Source: Refer to Section 1

SECTION 3: COMPOSITION/HAZARDOUS COMPONENTS

HAZARD	CAS NO.	%WT
Glycerol	56-81-5	~10%

Emergency Overview:

May cause irritation to skin, eyes, and respiratory tract, may affect kidneys.

HMIS and NFPA Ratings: 0 – Minimal or None, 1 – Slight, 2 – Moderate, 3 – Serious, and 4 – Severe

Health:	2
Flammability:	0
Reactivity:	1

SECTION 4: FIRST AID MEASURES

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

First-aid measures after skin contact: Wash skin with plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur.

First-aid measures after eye contact: Hold eyelids apart and flush eyes with plenty of water. Have eyes examined and tested by medical professional.



First-aid measures after ingestion:

Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get immediate medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Use media suitable to extinguish the supporting or surrounding fire. Wear NIOSH (or equivalent) approved self contained breathing apparatus. For small fires only: use carbon dioxide, dry powder or foam. May be combustible at high temperature. Emits toxic fumes under fire conditions.

Explosion Limits for Glycerol = Lower - 1.1; Upper - Not available.

Flash Point for Glycerol = 193°C; Autoignition Temperature for Glycerol = 400°C.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment and clothing including lab coat, safety glasses, gloves and NIOSH-approved respirator. Eliminate all sources of ignition. Collect in a manner that does not create

SECTION 7: HANDLING AND STORAGE

Provide appropriate exhaust ventilation. Keep tightly closed in a dry and well ventilated place. Store at -80°C.

SECTION 8: PERSONAL PROTECTION

Engineering Controls: Safety shower and eye wash. Mechanical exhaust.

Eye Protection: Safety goggles.

Hand Protection: Compatible resistant gloves.

Respiratory Protection: None required.

Hygiene Measure: General practice, wash (hands and skin) thoroughly after handling. Remove and wash contaminated clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

For Glycerol:

Boiling Point = 288°C

Melting Point = 20°F

Vapor Pressure = .0025 mm Hg@ 5

Vapor Density = 3.17 (H₂O = 1)

Evaporation Rate = No data available

Appearance = Clear viscous solution

SECTION 10: STABILITY AND REACTIVITY

Product is stable under normal conditions. Avoid strong oxidizing agents including mixtures with hydrogen peroxide, potassium permanganate, calcium hypochlorite, nitric acid, sulfuric acid, perchloric



SECTION 11: TOXICOLOGICAL INFORMATION

EFFECTS OF OVEREXPOSURE TO GLYCEROL:

EYES: Contact may cause irritation and slight corneal injury.

SKIN: Prolonged contact may cause irritation and/or allergic reaction.

INHALATION: No known toxicity, but excessive fumes may cause irritation if inhaled.

INGESTION: May cause irritation of gastrointestinal tract and diarrhea.

SECTION 12: ECOLOGICAL INFORMATION

No information available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of material in accordance with applicable local, state, and federal regulations.

SECTION 14: TRANSPORT INFORMATION

This product is not dangerous and no special precautions are needed according to DOT, ADR/RID (cross

SECTION 15: REGULATORY INFORMATION

OSHA Hazards: None known.

US Classification and Label Test

US Statements: Caution. Avoid contact and inhalation. Target Organ (s): Kidneys.

United States Regulatory Information:

Sara Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR

DSL: Yes

NDSL: No

EU Additional Classification

S: 23 24/25

Safety Statements: Do not breath vapor. Avoid contact with skin and eyes.

Section 16. Other information

Other Information about this product

Not available

DISCLAIMER:

This above information is believed to be correct and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty with respect to such information, and we assume no liability resulting from its use. Users should make independent decisions regarding the suitability of the information for their particular purposes.

