

MATERIAL DATA SHEET

Human S-100 Proteasome Fraction

Cat. # F-372

Cell fraction containing the full HeLa cell compliment of E1, E2s, E3s, 20S and 26S proteasomes, isopeptidases, and PA28. Useful in assays to demonstrate ubiquitin conjugation and degradation.

Product Information

Quantity:	5 mg
Source:	Human cervical epithelial carcinoma cell line, HeLa-derived
Stock:	X mg/ml in 50 mM HEPES pH 7.6, 20 mM NaCl and 0.5 mM DTT

Use & Storage

Use:	HeLa S-100 Fraction can be used to demonstrate Ubiquitin-proteasome-dependent substrate degradation or conjugation. Reaction conditions will need to be optimized for each specific application. We recommend an initial HeLa S-100 Fraction concentration of 0.5-4 mg/mL. Additionally, we recommend the inclusion of an isopeptidase inhibitor and a proteasome inhibitor when investigating substrate conjugation.
Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. • 12 months from date of receipt, -70 °C as supplied. • 3 months, -70 °C under sterile conditions after opening.

Literature

References:

1. Hersko A. *et al.* (1982) J. Biol. Chem. **258**:8206-8214
2. Driscoll J. and Goldberg A. L. (1990) J. Biol. Chem. **265**:4789-4792
3. Ganoth D. *et al.* (1988) J. Biol. Chem. **263**:12412-12419
4. Wing S. S. (2003) Intl. J. Biochem. Cell. Biol. **35**:590-605
5. Voges D. *et al.* (1999) Ann. Rev. Biochem. **68**:1015-1068
6. Waxman L. *et al.* (1987) J. Biol. Chem. **262**:2451-2457
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For research use only. Not for use in humans.