

MATERIAL DATA SHEET**20S Immunproteasome, rat****Cat. # E-375**

The 20S catalytic core is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Immunoproteasomes are modified forms of the constitutive 20S that function in MHC Class I antigen processing. During immunoproteasome assembly, the constitutive catalytic subunits (Delta, Z and X) are replaced by the inducible subunits LMP2, LMP7 and MECL, the former two being encoded by MHC. This protein has been purified from rat spleen.

Product Information

Quantity:	50 µg
Stock:	X mg/ml (µM) in 50 mM HEPES pH 7.6, 100mM NaCl, 1mM DTT. Actual concentration will vary with specific Lot #.
MW:	700 kDa
Purity:	> 95% by SDS-PAGE

Use & Storage

Use:	Typical enzyme concentration for assay is 0.1-1 nM. 20S can be activated by SDS (0.035%) or with PA28 Activator (Cat. # E-380).
Storage:	Store at -80°C. Avoid multiple freeze/thaw cycles.

Literature

References:	Cardozo C. and Kohanski R.A. (1999) <i>J. Biol. Chem.</i> 273 :16764-16770
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	Griffen T.A., <i>et al.</i> (1998) <i>J. Exp. Med.</i> 187 :97-104
	Kesmir C., <i>et al.</i> (2003) <i>Immunogen.</i> 7 : 437-449
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