

Active Recombinant Human MMP7 Protein, TG-8H-GGQ-tagged

Cat. No. MMP7-50H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MMP-7 (Leu18-Lys267, NM_002423) with a C-terminal TG-8H-GGQ tag was expressed in CHO cells.
Species	Human
Source	CHO
ProteinLength	18-267 a.a.
Bio-activity	Human MMP-7 cleaves a fluorogenic peptide substrate Mca-PLGL(Dpa)AR with a specific activity value > 500 pmol/g/min. ECM remodeling by degrading ECM components.
Molecular Mass	29.4 kDa
Endotoxin	Less than 1 EU per g of protein as determined by the LAL method.
Purity	>90% as determined by Coomassie stained SDS-PAGE.
Usage	Bioassay
Storage	Unopened vial can be stored at -20 centigrade or -70 centigrade for six months. For maximum results, quick spin vial prior to opening. Avoid repeated freeze/thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Concentration	200 µg/mL.
Storage Buffer	0.22 µM filtered protein solution is in pH 5.5 MES buffer containing 20 mM MES, 10 mM CaCl ₂ , 150 mM NaCl, and 20% glycerol.
GENE INFORMATION	
Gene Name	MMP7 matrix metalloproteinase 7 [Homo sapiens (human)]
Official Symbol	MMP7
Synonyms	MMP7; matrix metalloproteinase 7; MMP-7; MPSL1; PUMP-1; matrilysin; matrin; matrix metalloproteinase 7 (matrilysin, uterine); matrix metalloproteinase 7 (matrilysin, uterine); matrix metalloproteinase-7; pump-1 protease; uterine matrilysin; uterine metalloproteinase; EC 3.4.24.23
Gene ID	4316
mRNA Refseq	NM_002423
Protein Refseq	NP_002414
MIM	178990
UniProt ID	P09237
The activity of hMMP-7 was measured with 10 µM of fluorogenic MMP substrate, Mca-PLGL-Dpa-AR-NH₂, in the presence of 3, 6, 12, 24, 48 ng of activated hMMP-7. The activity of activated hMMP-7 is >500 pmole/g/min.	

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