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Development of an integrated system for activity-based profiling of matrix metallo-proteases

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List of Abbreviations

AANHSE	acetic acid N-hydroxysuccinimide ester
ABP	activity-based probe
ACE	automated cartridge exchanger
ACN	acetonitrile
ADAM	a disintegrin and metallo-protease domain
ADAMTS	a disintegrin and metallo-protease domain with thrombospondin motifs
APMA	p-aminophenylmercuric acetate
APS	ammonium persulphate
AS	auto sampler
BPC	base peak chromatogram
CBB	coomassie brilliant blue
CHAPS	3-(3-cholamidopropyl)-dimethylammonio propane sulfonate
DDM	dodecyl- β -D-maltoside
2DE	two dimensional gel electrophoresis
Dpa	N-3-(2,4-dinitrophenyl)-L-2,3-diaminopropionyl
DTT	dithiothreitol
ECM	extra cellular matrix
EDTA	ethylenediaminetetracetic acid
EIC	extracted ion chromatogram

EDB	elution digestion buffer
EIB	elution buffer
ExB	extraction buffer
EY	extraction yield
HPD	high pressure dispenser
Hpx	hemopexin
LD	ligand density
MALDI	matrix assisted laser desorption ionisation
MC	missed cleavage
Mca	(7-methoxycoumarin-4-yl)acetyl
MMP	matrix metallo-protease
MS	mass spectrometry
MT-MMP	membrane-type matrix metallo-protease
NHOH	hydroxamic acid
NHS	N-hydroxysuccinimide
OGP	octylglucopyranoside
PEG	polyethelene glycol
PEG400-C ₈	polyethyleneglycol-400-monooctylether
PEG600-C ₈	polyethyleneglycol-600-monooctylether
PLG-NHOH	Pro-Leu-Gly-NHOH
RT	retention time
SDS-PAGE	sodium dodecyl sulphate polyacrylamide gel electrophoresis
SPE	solid phase extraction
TAPI-2	N-(R)-[2-(Hydroxyaminocarbonyl)methyl]-4-methylpentanoyl-L-t-butyl-alanyl-L-alanine, 2-aminoethyl Amide
TCA	trichloroacetic acid
TIC	total ion chromatogram
TIMP	tissue inhibitor of matrix metallo-protease
TEB	trypsin equilibration buffer
TEMED	N,N,N',N'-tetra-methyl-ethylenediamine
TCPK	tosyl phenylalanyl chloromethylketone
WB	wash buffer
Z-Leu-Arg-AMC	benzyloxycarbonyl-Leu-Arg-7-amino-4-methylcoumarin
Z-Phe-Arg-AMC	benzyloxycarbonyl-Phe-Arg-7-amino-4-methylcoumarin