

ChemWhat Technical Data Sheet (TDS)

Catalog Number: 401-15

Source: Escherichia coli.

Molecular Weight: Approximately 29.6 kDa, a single non-glycosylated polypeptide chain containing 264 amino acids.

Quantity: 2μg/10μg/1000μg

AA Sequence: ALASLGSAQS SSFSPEAWLQ QYGYLPPGDL RTHTQRSPQS LSAAIAAMQK FYGLQVTGKA

DADTMKAMRR PRCGVPDKFG AEIKANVRRK RYAIQGLKWQ HNEITFCIQN YTPKVGEYAT YEAIRKAFRV WESATPLRFR EVPYAYIREG HEKQADIMIF FAEGFHGDST PFDGEGGFLA HAYFPGPNIG GDTHFDSAEP WTVRNEDLNG NDIFLVAVHE LGHALGLEHS SDPSAIMAPF

YQWMDTENFV LPDDDRRGIQ QLYG > 95 % by SDS-PAGE and HPLC analyses.

Biological Activity: Test in Process.

Purity:

Physical Appearance: Sterile colorless liquid.

Formulation: Supplied as a 0.2 µm filtered solution in 20 mM Tris-HCl, pH 7.4, 300 mM NaCl, 3 mM CaCl₂,

10 μM ZnCl₂, with 30 % glycerol.

Endotoxin: Less than 1 EU/µg of rHuMMP-14 as determined by LAL method.

Stability & Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

6 months from date of receipt, -20 to -70 °C as supplied.

3 months, -20 to -70 °C under sterile conditions after opening.

Usage: ChemWhat Limited in UK offers this branded product for research, development or further

evaluation purposes. NOT FOR HUMAN USE.

Human Matrix metalloproteinase-14

As the first member of membrane type (MT) MMPs, MMP-14, also known as MT1-MMP, plays an important role in extracellular matrix (ECM) remodeling by being able to degrade type I collagen, activate pro-MMP-2 and process cell adhesion molecules such as CD44 and integrin alpha V. MMP-14 is therefore a key enzyme in many physiological and pathological processes such as angiogenesis and tumor invasion. Structurally, MMP-14 consists of the following domains: a pro domain containing the furin cleavage site, a catalytic domain containing the zinc-binding site, a hinge region, a hemopexin-like domain, a transmembrane domain, and a cytoplamasic tail. Recombinant Human MMP-14 consists of the pro and catalytic domains, which can be activated by treatment with furin as described in Activity Assay Protocol.

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