



Product Datasheet

Product Name	A Disintegrin and Metalloproteinase Domain 12 S-Isoform Human Recombinant
Cata No	CB501090
Source	<i>Escherichia Coli.</i>
Synonyms	Meltrin alpha, MCMP, MLTN, MLTNA, MCMPMltna, ADAM metallopeptidase domain 12, ADAM 12, ADAM12.

Description

ADAM12 is part of the A Disintegrin and Metalloprotease protein family which are membrane-anchored proteins structurally related to snake venom disintegrins, and are involved in a range of biological processes concerning cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis.

ADAM12 has 2 alternatively spliced transcripts, a shorter/soluble secreted form called S-isoform and a longer membrane-bound form called L isoform. The S isoform is found to stimulate myogenesis. The short & soluble isoform lacks the transmembrane and cytoplasmic domains. ADAM12 S Isoform expression is limited to the placenta, embryo and foetus although levels have been detected in some tumour cell lines. ADAM12 takes part in skeletal muscle regeneration, specifically at the onset of cell fusion. ADAM12 is involved in macrophage-derived giant cells (MGC) and osteoclast formation from mononuclear precursors (by similarity).
ADAM12 Short/soluble isoform Human

Recombinant fused to N-terminal His-Tag produced in E.Coli is a single, non-glycosylated polypeptide chain containing 531 amino acids (208-738) and having a molecular mass of 60 kDa.

Physical Appearance

Sterile Filtered colorless solution.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Formulation

The ADAM12 solution contains PBS and 50% Glycerol.

Stability

ADAM12 although stable 4°C for 4 weeks, should be stored desiccated below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.