



**Catalog Number:** PR27193

**Product Type:** Recombinant Protein

**Source:** *E. Coli*

**Description/Molecular Mass:** 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* as a single, non-glycosylated polypeptide chain containing 531 amino acids (208-738) and having a molecular mass of 62 kDa.

**Purity:** Greater than 95.0% as determined by:  
(a) Analysis by SDS-PAGE.

**Format:** The ADAM12 solution contains 25mM Sodium Acetate pH 4.8 and 50% Glycerol.

**Storage:** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### FOR RESEARCH USE ONLY

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Neuromics • 5325 West 74<sup>th</sup> Street, Suite 8 • Edina, MN 55439  
phone 866-350-1500 • fax 612-677-3976 • e-mail [pshuster@neuromics.com](mailto:pshuster@neuromics.com)