
Product Data Sheet

Product Name: ADAM12 Human
 Cat. No.: GP22677
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Meltrin alpha; MCMP; MLTN; MLTNA; MCMPLtna; ADAM metallopeptidase domain 12; ADAM 12; ADAM12.		
Formulation	The ADAM12 solution contains 25mM Sodium Acetate pH 4.8 and 50% Glycerol.		

Introduction

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).

Stability

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.

Background

ADAM12 Short/soluble isoform Human Recombinant fused to N-terminal His-Tag

Caution: Product has not been fully validated for medical applications. For research use only.

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produced in E.Coli is a single, non-glycosylated polypeptide chain containing 531 amino acids (208-738) and having a molecular mass of 62 kDa.

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