ADAM15 Protein, Human (CHO, His)

Cat. No.:	HY-P75534
Synonyms:	Disintegrin and metalloproteinase domain-containing protein 15; ADAM 15; MDC-15; Metargidin
Species:	Human
Source:	CHO
Accession:	Q13444 (D207-T696)
Gene ID:	8751
Molecular Weight:	65-70 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	ADAM15 protein is an active metalloproteinase that possesses gelatinolytic and collagenolytic activity. It is involved in various biological processes, including wound healing, heterotypic intraepithelial cell/T-cell interactions, and homotypic T-cell aggregation. ADAM15 also inhibits the adhesion and migration of airway smooth muscle cells mediated by beta-1 integrin. It suppresses cell motility towards fibronectin, potentially by reducing the expression of alpha-v/beta-1 integrin through the inactivation of ERK1/2. Additionally, ADAM15 cleaves E-cadherin in response to growth factor deprivation and plays a role in glomerular cell migration and pathological neovascularization. It may also have a role in cartilage remodeling. During sperm epididymal maturation and the acrosome reaction, ADAM15 may undergo proteolytic processing. Its disintegrin domain suggests a potential involvement in sperm-egg binding.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA