

Product datasheet

Natural Human Alpha 1 microglobulin protein ab96149

製品の概要

製品名	Natural Human Alpha 1 microglobulin protein
タンパク質長	Full length protein

製品の詳細

由来	Native
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アミノ酸配列	
アクセッション番号	P02760
生物種	Human
分子量	27 kDa
領域	20 to 203

特性

Our [Abpromise guarantee](#) covers the use of **ab96149** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	SDS-PAGE
精製度	96 % . ab96149 shows one band only corresponding to alpha1 electrophoretic mobility using Cellulose Acetate Electrophoresis. Nominally greater than 96% of the protein is Alpha 1 microglobulin.
製品の状態	Lyophilised
備考	Starting material tested and found negative for HIV I & II antibodies, Hepatitis B surface antigen, and Hepatitis C antibodies. E (1cm, 0.1%) = 1.58.

前処理および保存

保存方法および安定性	Shipped at 4°C. Store at +4°C. Preservative: None Constituents: 0.02M Ammonium bicarbonate (May contain traces of buffer salts)
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再構成	Reconstitution in phosphate buffer, pH >7.0 containing 0.15M NaCl is recommended.
関連情報	
機能	Inter-alpha-trypsin inhibitor inhibits trypsin, plasmin, and lysosomal granulocytic elastase. Inhibits calcium oxalate crystallization. Trypstatin is a trypsin inhibitor.
組織特異性	Expressed by the liver and secreted in plasma. Alpha-1-microglobulin occurs in many physiological fluids including plasma, urine, and cerebrospinal fluid. Inter-alpha-trypsin inhibitor is present in plasma and urine.
配列類似性	In the N-terminal section; belongs to the calycin superfamily. Lipocalin family. Contains 2 BPTI/Kunitz inhibitor domains.
翻訳後修飾	The precursor is proteolytically processed into separately functioning proteins. 3-hydroxykynurenine, an oxidized tryptophan metabolite that is common in biological fluids, reacts with Cys-53, Lys-111, Lys-137, and Lys-149 to form heterogeneous polycyclic chromophores including hydroxanthommatin. The reaction by alpha-1-microglobulin is autocatalytic; the human protein forms chromophore even when expressed in insect and bacterial cells. The chromophore can react with accessible cysteines forming non-reducible thioether cross-links with other molecules of alpha-1-microglobulin or with other proteins such as Ig alpha-1 chain C region 'Cys-352'. Heavy chains are interlinked with bikunin via a chondroitin 4-sulfate bridge to the their C-terminal aspartate. Addition of glycosaminoglycan chondroitin sulfate, allows cross-linking between the different components.
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