

Recombinant Human β -Defensin 4A/DEFB4A Protein

Catalog Number:PKSH033266



Note: Centrifuge before opening to ensure complete recovery of vial contents.

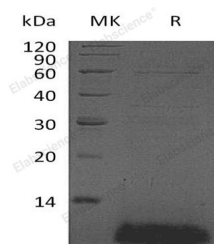
Description

Synonyms	Beta-Defensin 4A;Beta-Defensin 2;BD-2;hBD-2;Defensin;Beta 2;Skin-Antimicrobial Peptide 1;SAP1;DEFB4A;DEFB102;DEFB2;DEFB4;DEFB4B
Species	Human
Expression Host	E.coli
Sequence	Gly24-Pro64
Accession	O15263
Calculated Molecular Weight	4.3 kDa
Observed molecular weight	9 kDa
Tag	None

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μ g of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

β -Defensin 4A is a membrane-active cationic peptide that functions in inflammation and innate immune responses. There are at least 30 β -Defensins, which are distinguished from α -Defensins by the connectivity pattern of their three intermolecular disulfide bonds. Members of the Defensin family are highly similar in protein sequence. This gene encodes Defensin, DEFB4, which has broad-spectrum antimicrobial activity and may play an important role in innate epithelial defense. They are highly expressed in skin and tonsils, and to a lesser extent in trachea, uterus, kidney, thymus, adenoid, pharynx and tongue. β -Defensin 4A has low expression in salivary gland, bone marrow, colon, stomach, polyp and larynx. No expression in small intestine. The 45 amino acid mature human BD3 shares 38% and 33% amino acid sequence

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identity with mouse and rat BD3, respectively.

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