Recombinant Protein Technical Manual

Recombinant Human β-Defensin 4A/DEFB4A Protein

RPES3528

Product Data:

Product SKU: RPES3528

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: O15263

Protein Information:

Molecular Mass: 4.3 kDa

AP Molecular Mass: 9 kDa

Tag:

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: 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℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB, 130mM NaCl, pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Beta-Defensin 4A; Beta-Defensin 2; BD-2; hBD-2; Defensin; Beta 2; Skin-Antimicrobial Peptide 1; SAP1; DEFB4A; DEFB102; DEFB2; DEFB4; DEFB4B

Immunogen Information:

Sequence: Gly24-Pro64

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 identity with mouse and rat BD3, respectively.