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Recombinant Human TGFB3 Protein

Catalog No. PKSH033140

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

Description

Synonyms Transforming growth factor beta-3;TGF-beta-3;Latency-associated

peptide;LAP

Species Human

Expression Host HEK293 Cells

Sequence Ala301-Ser412(Tyr340Phe)

AccessionP10600Calculated Molecular Weight12.7 kDaObserved molecular weight12-14 kDaTagNone

Bioactivity Measured by its ability to inhibit the IL-4-dependent proliferation of TF-1 mouse T

cells. The ED50 for this effect is 10-80 pg/ml.

Properties

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

Endotoxin < 0.01 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 µm filtered solution of 50mM Glycine-HCl, 150mM NaCl,

pH 2.5.

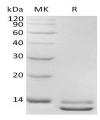
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as

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.

For Research Use Only

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Background

Transforming growth factor beta 3(TGFB3) is a member of a TGF - β superfamily which is defined by their structural and functional similarities. TGFB3 is secreted as a complex with LAP. This latent form of TGFB3 becomes active upon cleavage by plasmin, matrix metalloproteases, thrombospondin -1, and a subset of integrins. It binds with high affinity to TGF- β RII, a type II serine/threonine kinase receptor. TGFB3 is involved incell differentiation, embryogenesis and development. It is believed to regulate molecules involved in cellularadhesion and extracellular matrix (ECM) formation during the process of palate development. Without TGF- β 3, mammals develop a deformity known as a cleft palate.

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