Recombinant Mouse TGFB2 Protein

Catalog No. PKSM041168

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

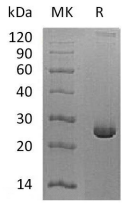
Description

Synonyms	TGFB2;BSC-1 cell growth inhibitor;Cetermin;Glioblastoma-derived T-cell suppressor factor;G-TSF;MGC116892;Polyergin;TGF-beta2;TGF-beta-2;transforming growth factor beta-2
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Ala303-Ser414
Accession	P27090
Calculated Molecular Weight	12.7 kDa
Observed molecular weight	12 kDa
Tag	None
Bioactivity	Immobilized Mouse TGFB2 at 10μg/ml(100 μl/well) can bind Human TGFBR2-FC(Cat: PKSH033426). The ED_{50} of Mouse TGFB2 is 0.136μg/mL.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg 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℃. 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 4mM HCl. 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



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Background

Transforming growth factor beta 2 (TGF-β2) is a member of TGF-beta superfamily that shares a characteristic cysteine knot structure. Mice with TGF-β2 gene deletion show defects in development of cardiac, lung, craniofacial, limb, spinal column, eye, inner ear and urogenital systems. All TGF-β isoforms signal via the same heteromeric receptor complex, consisting of a ligand binding TGF-β receptor type II (TβR-II), and a TGF-β receptor type I (TβR-I). Signal transduction from the receptor to the nucleus is mediated via SMADs. TGF-β expression is found in cartilage, bone, teeth, muscle, heart, blood vessels, haematopoitic cells, lung, kidney, gut, liver, eye, ear, skin, and the nervous system.

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