

Recombinant Human TGF-alpha Protein

Product Information

Product Name	Cat#	Size
Recombinant Human TGF-alpha Protein	91704ES10	10 µg
	91704ES50	50 µg

Product Description

Transforming Growth Factor-alpha (TGF- α), also known as sarcoma growth factor, TGF-type I and ETGF, is a member of the EGF family of cytokines. TGF- α is an EGF-related polypeptide growth factor that signals through the EGF receptor, and stimulates the proliferation of a wide range of epidermal and epithelial cells. Mature TGF-alpha shows approximately 93% amino acid sequence identity with mouse or rat TGF-alpha and is not species specific in its biological effects.

Product Properties

Synonyms	Transforming Growth Factor alpha; TGF-a; TGF-type I; ETGF
Accession	P01135
Gene ID	7039
Source	E.coli-derived Human TGF-a protein, V1a40-Ala89
Molecular Weight	Approximately 5.8 kDa, on SDS-PAGE under reducing conditions.
AA Sequence	V VSHFNDCPDS HTQFCFHGTC RFLVQEDKPA CVCHSGYVGA RCEHADLLA
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 95% as determined by SDS-PAGE
Biological Activity	Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED ₅₀ for this effect is < 0.4 ng/mL.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 µg/ml. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Shipping and Storage

The products are shipped with ice pack and can be stored at -80°C for 1 year from date of receipt.

1 week, 2 to 8 °C under sterile conditions after reconstitution.

3 months, -20 °C under sterile conditions after reconstitution.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. For your safety and health, please wear lab coats and disposable gloves for operation.
2. For research use only!