

TGF alpha/TGFA Protein, Mouse (HEK293, Fc)

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| Cat. No.: | HY-P77857 |
| Synonyms: | ETGF; TGF-alpha; TGF type 1; TGFA |
| Species: | Mouse |
| Source: | HEK293 |
| Accession: | P48030 (V39-A88) |
| Gene ID: | 21802 |
| Molecular Weight: | 32-45 kDa |

PROPERTIES

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| 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. |
| Appearance | Lyophilized powder |
| Formulation | Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4, 8% trehalose or PBS, pH 8.0. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. |
| Storage & Stability | Stored at -20°C for 2 years from date of receipt. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | Room temperature in continental US; may vary elsewhere. |

DESCRIPTION

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| Background | TGF alpha, a mitogenic polypeptide, exhibits the ability to bind to the EGF receptor (EGFR) and synergistically collaborate with TGF beta to facilitate anchorage-independent cell proliferation in soft agar. It interacts with the PDZ domains of SDCBP and SNTA1, with the former being crucial for its localization to the cell surface. In its immature form, present in the endoplasmic reticulum and characterized by a prosegment and partial N-glycosylation, TGF alpha interacts with CNIH. Within the Golgi apparatus, it may form a complex with CNIH and GORASP2. Additionally, TGF alpha interacts with NKD2 through its cytoplasmic C-terminal domain and with MAGI3. |
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Caution: Product has not been fully validated for medical applications. For research use only.

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