

Product Datasheet

Recombinant TGF- α , Human (orb1494666)

Catalog Number	orb1494666
Category	Proteins
Description	<p>Protransforming Growth Factor-alpha (TGF-alpha), also known as sarcoma growth factor, TGF-type I and ETGF, is a member of the EGF family of cytokines. It is expressed in monocytes, brain cells, keratinocytes and various tumor cells. ProTGF-alpha signals through EGFR and acts synergistically with TGF-beta to promote the proliferation of a wide range of epidermal and epithelial cells. It may function as either a membrane-bound ligand or a soluble ligand. Membrane-bound proTGF-alpha plays a role in cell-cell adhesion and juxtacrine stimulation of adjacent cells. The soluble form of the cytokine is released from the membrane-bound form by proteolytic cleavage and acts as a mitogen for cell proliferation.</p>
Form/Appearance	Lyophilized after extensive dialysis against PBS.
Buffer/Preservatives	Lyophilized after extensive dialysis against PBS.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Purification	> 95% as analyzed by SDS-PAGE and HPLC.
Protein Sequence	VVSHFNDCPDSHTQFCFHGTCRFLVQEDKPACVCHSGYVGARCEHADLLA
MW	8-10 kDa, observed by reducing SDS-PAGE.
Application notes	Reconstituted in ddH ₂ O or PBS at 100 μ g/ml.
Endotoxins	0.2 EU/ μ g, determined by LAL method.
Source	CHO
Biological Activity	ED50 0.4 ng/ml, measured in a cell proliferation assay using 3T3 cells.

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Storage	Lyophilized recombinant Human TGF-alpha remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, Human TGF-alpha Receptor should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Note	For research use only
Expiration Date	6 months from date of receipt.

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