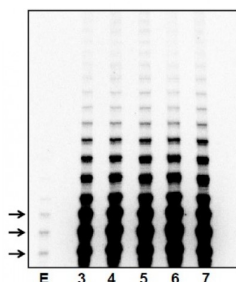


Human Telomerase Protein (HEK-293T Cell Pellet)

Catalogue No.: abx069991



HEK-293T telomerase over-expressing cell pellets express ~400-fold greater telomerase activity over endogenous levels. These HEK-293T cells have been transiently transfected with plasmid DNA encoding hTERT, hTR, and dyskerin, leading to ~400-fold higher enzymatic activity. In this figure, cell aliquots were removed over time for analysis of their telomerase activity using a direct activity assay. Lane E: untransfected, endogenous activity – arrows indicate the first three telomeric repeats. Lanes 3 - 7: activity at days 3 – 7 post-transfection. For more information please see the 2017 *METHODS* publication, <http://www.sciencedirect.com/science/article/pii/S1046202316302481>. Simply over-expressing just the hTERT protein does not lead to significant increase in telomerase activity because hTR becomes limiting (it might result in 3-5 fold more activity at best). Our product is superior because the cells over-express all three required components of the enzyme complex: hTERT, hTR, and dyskerin. This is the only way to obtain the several-hundred fold increase in enzymatic activity.

These over-expressing cell pellets allow reliable detection of hTERT protein by Western blotting.

Each pellet is sufficient for ~20-50 direct telomerase activity assays, as described in: <http://www.sciencedirect.com/science/article/pii/S1046202316302481>.

HEK-293T Telomerase Over-Expressing Cell Pellets are non-sterile pellets for greatly enhanced levels of telomerase activity and purification of active enzyme. Each pellet contains 10⁷ telomerase over-expressing HEK-293T cells. These telomerase over-expressing cell pellets can be used in conjunction with hTERT Antibody ([abx120550](#)) and hTERT Peptide ([abx069990](#)). The cell pellets are intended to be lysed and the telomerase extracted and purified.

Target: hTERT

Conjugation: Unconjugated

Form: Solid

Purification: This product is non-sterile.

Storage: Store at -80 °C. Avoid repeated freeze/thaw cycles.

UniProt Primary AC: O14746 ([UniProt](#), [ExPASy](#)) Q8N6C3 ([UniProt](#), [ExPASy](#)) Q8NG46 ([UniProt](#), [ExPASy](#))

Gene Symbol: TERT

GeneID: [7015](#)

Buffer: Not applicable.

Note:

This product is shipped with dry ice.

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