

## Tyrosyl-DNA Phosphodiesterase 2 Human Recombinant

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|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item Number</b>                       | rAP-1095                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b>                          | AD022, dJ30M3.3, EAP2, EAPII, RP1-30M3.3, TTRAP, 5'-tyrosyl-DNA phosphodiesterase, hTDP2, ETS1-associated protein 2, ETS1-associated protein II.                                                                                                                                                                                                                                                                                        |
| <b>Description</b>                       | TDP2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 385 amino acids (1-362) and having a molecular mass of 43.3kDa. TDP2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.                                                                                                                                                       |
| <b>Uniprot Accession Number</b>          | O95551                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Amino Acid Sequence</b>               | MGSSHHHHHH SSGLVPRGSH MGSMELGSL EGGREAAEEE GEPEVKKRRL LCVEFASVAS CDAA-VAQCFL AENDWEMERA LNSYFEPPVE ESALERRPET ISEPKTYVDL TNEETTDSTT SKISPS EDTQ QENGSMFSLI TWNIDGLDLN NLSEARGVC SYLALYSPDV IFLQEVIPPY YSYLKKRSSN YEITGHEEG YFTAIMLKKS RVKLKSQEII PFPSTKMMRN LLCVHNVSG NELCLMTSHL ESTRGHAAER MNQLK-MVLKK MQEAPESATV IFAGDTNLRD REVTRCGGLP NNIVDVWEFL GKPKHCQYTW DTQMNSNLGI TAACKLRFDR IFFRAAAEEG HIIPRSLDLL GLEKLCGRF PSDHWGLLCN LDIIIL. |
| <b>Source</b>                            | Escherichia Coli.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Physical Appearance and Stability</b> | Sterile filtered colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.                                                                                                                                                               |
| <b>Formulation and Purity</b>            | The TDP2 solution (0.5mg/ml) contains 20mM Tris-HCl buffer, (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT. Greater than 85.0% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                               |
| <b>Application</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Solubility</b>                        |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Biological Activity</b>               |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Shipping Format and Condition</b>     | Lyophilized powder at room temperature.                                                                                                                                                                                                                                                                                                                                                                                                 |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**