

## Recombinant Human HIV-1 Tat Interactive Protein 2, 30kDa, His-tagged

**Cat. No.** HTATIP2-2723H    **Lot. No.** (See product label)

### SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant humanHTATIP2 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 29.3 kDa (262aa),confirmed by MALDI-TOF.                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>              | HTATIP2, also known as TIP30, is a member of the short-chain dehydrogenases/reductases (SDR) family. It acts as a tumor suppressor participating in metabolic suppression, inhibition of angiogenesis and induces the expression of apoptosis related genes Bad and Siva. HTATIP2 interacts with the activation domain of HIV-1 TAT and enhances its transcription by phosphorylating RNA polymerase II (Pol II). Defects in This protein are associated with hepatocellular carcinomas and apoptotic resistant tumor cells, suggesting a potential use for HTATIP2 in antitumor therapy. |
| <b>Sequences Of Amino Acids</b> | MGSSHHHHHH SSGLVPRGSH MAETEALSKL REDFRMQNKS VFILGASGET<br>GRVLLKEILE QGLFSKVTLI GRRKLTFDEE AYKNVNQEVV DFEKLDDYAS<br>AFQGHVDVFC CLGTTTRGKAG AEGFVRVDRD YVLKSAELAK AGGCKHFNLL<br>SSKGADKSSN FLYLQVKGEV EAKVEELKFD RYSVFRPGVL LCDRQESRPG<br>EWLVRKFFGS LPDSWARGHS VPVVTVVRAM LNNVVRPRDK QMELLENKAI<br>HDLGKAHGSL KP                                                                                                                                                                                                                                                                          |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                      |                                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>          | Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 1mM DTT.                                                                             |
| <b>Purity</b>        | > 95% by SDS – PAGE.                                                                                                                                  |
| <b>Concentration</b> | 1 mg/ml (determined by Bradford assay).                                                                                                               |
| <b>Storage</b>       | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles. |

## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | HTATIP2 HIV-1 Tat interactive protein 2, 30kDa [ Homo sapiens ]                                                                                                                                                                                                                     |
| <b>Synonyms</b>            | HTATIP2; HIV-1 Tat interactive protein 2, 30kDa; oxidoreductase HTATIP2; Tat-interacting protein (30kD); HIV-1 TAT-interactive protein 2; 30 kDa HIV-1 TAT-interacting protein; short chain dehydrogenase/reductase family 44U, member 1; EC 1.1.1.-; CC3; TIP30; SDR44U1; FLJ26963 |
| <b>Gene ID</b>             | 10553                                                                                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>         | NM_001098520                                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>      | NP_001091990                                                                                                                                                                                                                                                                        |
| <b>MIM</b>                 | 605628                                                                                                                                                                                                                                                                              |
| <b>UniProt ID</b>          | Q9BUP3                                                                                                                                                                                                                                                                              |
| <b>Chromosome Location</b> | 11p15.1                                                                                                                                                                                                                                                                             |

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**Function**

NAD or NADH binding; RNA polymerase II transcription factor activity; oxidoreductase activity; oxidoreductase activity, acting on the aldehyde or oxo group of donors, NAD or NADP as acceptor; protein binding; transcription coactivator activity

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