

## Recombinant Mouse Tuft1 protein, His & T7-tagged

**Cat. No.** Tuft1-8095M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse Tuft1 aa. (Met1~Thr390 (Accession # O08970)) fused with N-terminal His & T7 tag was produced in E. coli cells.                                                                                                                                                                               |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | Met1~Thr390                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | Tuftelin is an acidic protein that is thought to play a role in dental enamel mineralization and is implicated in caries susceptibility. It is also thought to be involved with adaptation to hypoxia, mesenchymal stem cell function, and neurotrophin nerve growth factor mediated neuronal differentiation. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 48.3kDa                                                                                                                                                                                                                                                                              |
| <b>Endotoxin</b>        | <1.0EU per 1ug (determined by the LAL method)                                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | >90%                                                                                                                                                                                                                                                                                                           |
| <b>Characteristic</b>   | The isoelectric point is 5.8.                                                                                                                                                                                                                                                                                  |
| <b>Applications</b>     | SDS-PAGE; WB; ELISA; IP                                                                                                                                                                                                                                                                                        |

 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>Stability</b>      | The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Buffer</b> | Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.                                                                                                                                                                                                                                                                                                                               |
| <b>Reconstitution</b> | Reconstitute in sterile ddH <sub>2</sub> O.                                                                                                                                                                                                                                                                                                                                                                                                                               |

## GENE INFORMATION

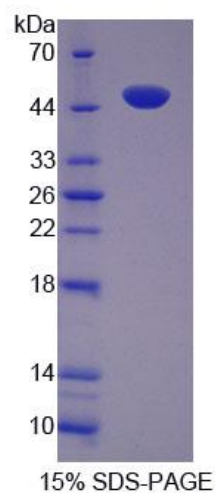
|                        |                                                 |
|------------------------|-------------------------------------------------|
| <b>Gene Name</b>       | Tuft1 tuftelin 1 [ Mus musculus (house mouse) ] |
| <b>Official Symbol</b> | Tuft1                                           |
| <b>Synonyms</b>        | tuftelin                                        |
| <b>Gene ID</b>         | 22156                                           |
| <b>mRNA Refseq</b>     | NM_001293728.1                                  |
| <b>Protein Refseq</b>  | NP_001280657.1                                  |
| <b>UniProt ID</b>      | O08970                                          |

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**SDS-PAGE**



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