

## Recombinant Human TCN1 Protein, His-tagged

**Cat. No.** TCN1-569H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human TCN1(Glu24~Tyr433) fused with His tag at N-terminal was expressed in E. coli.                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | Glu24~Tyr433                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | This gene encodes a member of the vitamin B12-binding protein family. This family of proteins, alternatively referred to as R binders, is expressed in various tissues and secretions. This protein is a major constituent of secondary granules in neutrophils and facilitates the transport of cobalamin into cells. |
| <b>Form</b>             | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | 49.3kDa                                                                                                                                                                                                                                                                                                                |
| <b>Endotoxin</b>        | <1.0EU per 1g (determined by the LAL method)                                                                                                                                                                                                                                                                           |
| <b>Purity</b>           | > 98%                                                                                                                                                                                                                                                                                                                  |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.<br>If bio-activity of the protein is needed, please check active protein.                                                                                                                                                                                                   |

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Reconstitution</b> | Reconstitute in PBS or others.                                                                                                                                                                                                                                                                                                               |

## GENE INFORMATION

|                        |                                                                                                                                   |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | TCN1 transcobalamin I (vitamin B12 binding protein, R binder family) [ Homo sapiens ]                                             |
| <b>Official Symbol</b> | TCN1                                                                                                                              |
| <b>Synonyms</b>        | TCN1; transcobalamin I (vitamin B12 binding protein, R binder family); transcobalamin-1; haptocorin; haptocorrin; TC1; TCI; TC-1; |
| <b>Gene ID</b>         | 6947                                                                                                                              |
| <b>mRNA Refseq</b>     | NM_001062                                                                                                                         |
| <b>Protein Refseq</b>  | NP_001053                                                                                                                         |
| <b>MIM</b>             | 189905                                                                                                                            |
| <b>UniProt ID</b>      | P20061                                                                                                                            |

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