

# Recombinant human RUNX3/CBFA3 protein

Catalog Number: ATGP0576

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

53-186aa

**UniProt No.**

Q13761

**NCBI Accession No.**

NP\_004341

**Alternative Names**

Runt-related transcription factor 3, AML2, CBFA3, PEBP2aC, Runt-related transcription factor 3 Acute myeloid leukemia 2 protein, Acute myeloid leukemia gene 2, AML 2, CBF alpha 3, CBFA 3, Core binding factor alpha 3 subunit, core binding factor, Core binding factor runt domain alpha subunit 3, Core binding factor subunit alpha 3.M574, core-binding factor, FLJ34510, MGC16070, Oncogene AML 2, PEA2 alpha C, PEBP2 alpha C, Pebp2a3, Polyomavirus enhancer binding protein 2 alpha C subunit, runt domain alpha subunit 3, runt related transcription factor 3, RuNX 3, SL3 3 enhancer factor 1 alpha C subunit, SL3/AKV core binding factor alpha C subunit, Transcription factor AML2.

## PRODUCT SPECIFICATION

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**Molecular Weight**

17.1 kDa (155aa) confirmed by MALDI-TOF

**Concentration**

0.5mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

**Purity**

&gt; 95% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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# Recombinant human RUNX3/CBFA3 protein

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## Description

RuNX3, also known as runt-related transcription factor 3, belongs to the RuNX family that regulate the expression of genes involved in cellular differentiation and cell cycle progression. A heterodimer of this protein and a beta subunit forms a complex that binds to the core DNA sequence 5'-PYGPGGT-3' found in a number of enhancers and promoters, and can either activate or suppress transcription. It also interacts with other transcription factors. It is a strong candidate as a gastric cancer tumor suppressor. Recombinant human RuNX3, fused to His-tag at N-terminus, protein was expressed in *E. coli* and purified by using conventional chromatography techniques

## Amino acid Sequence

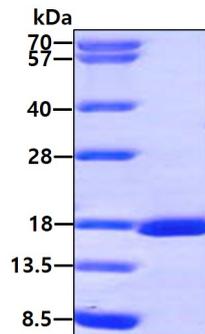
<MGSSHHHHH SSGLVPRGSH> MRSMDVLAD HAGELVRTDS PNFLCSVLPS HWRCNKTLPV AFKVVALGDV  
PDGTVVTVMA GNDENYS AEL RNASAVMKNQ VARFNDLRFV GRSGRGKSFT LTITVFTNPT QVATYHRAIK VTVDGPREPR  
RHRQK

## General References

Vogiatzi P. et al. (2006) *Cancer Biol Ther.* 5(4):371-4.  
Li QL, et al. (2002) *Cell.* 109(1):113-24.

## DATA

### SDS-PAGE



3ug by SDS PAGE under reducing condition and visualized by coomassie blue stain