

Human HBP1 Protein (GST Tag)

Catalog Number: 14127-H09E



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

1700058O05Rik; BE629963; C330012F01Rik; C86454

Protein Construction:

A DNA sequence encoding the mature form of human HBP1 (O60381-1) (Pro208-Phe345) was fused with the GST tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human HBP1 /GST chimera consists of 372 amino acids and has a predicted molecular mass of 42.5 kDa. It migrates as an approximately 43 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

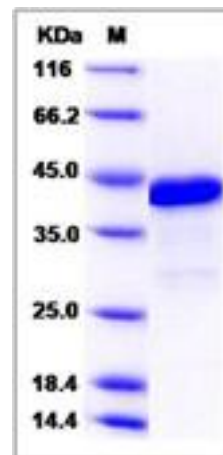
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

HBP1 is a sequence-specific DNA-binding transcription factor. It is involved in many biological processes. It was reported that HBP1 binds to p16(INK4A) promoter and activates p16(INK4A) expression. We found that trichostatin A (TSA), an inhibitor of HDAC (histone deacetylase), induces p16(INK4A) expression in an HBP1-dependent manner. HBP1 activates or represses the expression of some specific genes during cell growth and differentiation. HBP1 was acetylated by p300/CBP in two regions: repression domain (K297/305/307) and P domain (K171/419). HBP1 acetylation after TSA treatment was confirmed by immunoprecipitation assay. HBP1 interacted with histone acetyltransferase p300 and CREB-binding protein (CBP) and also recruited p300/CBP to p16(INK4A) promoter. HBP1 acetylation at K419 plays an important role in HBP1-induced p16(INK4A) expression.

References

- 1.Tevosian SG. et al., 1997, Genes Dev. 11 (3): 383-96.
- 2.Lavender P. et al., 1997, Oncogene. 14 (22): 2721-8.
- 3.Swanson. et al., 2004, Nat Struct Mol Biol. 11 (8): 738-46.

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Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>