

Human BMF / Bcl2 modifying factor Protein (His Tag)

Catalog Number: 13639-H07E



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

BMF

Protein Construction:

A DNA sequence encoding the mature form of human BMF (Q96LC9-1) (Met1-Arg184) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 85 % 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: His

Molecular Mass:

The recombinant human BMF consists of 199 amino acids and predicts a molecular mass of 22.3 KDa. It migrates as an approximately 25 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 50mM Tris, 0.1% Brij35, pH 8.0.

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:

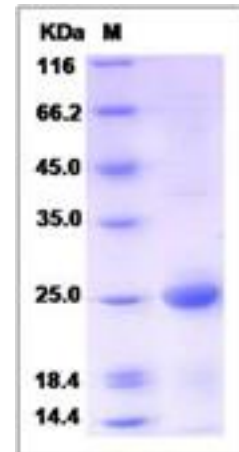
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

BMF(Bcl2 modifying factor) belongs to the BCL2 protein family. BCL2 family members form hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. BMF contains a single BCL2 homology domain 3 (BH3), and has been shown to bind BCL2 proteins and function as an apoptotic activator. BMF is found to be sequestered to myosin V motors by its association with dynein light chain 2, which may be important for sensing intracellular damage and triggering apoptosis. Alternatively spliced transcript variants encoding different isoforms have been identified.

References

1.Hattori A, *et al.* (2001) Characterization of long cDNA clones from human adult spleen. DNA Res. 7(6):357-66. 2.Day Catherine L, *et al.* (2004) Localization of dynein light chains 1 and 2 and their pro-apoptotic ligands. Biochem J. 377(Pt 3):597-605. 3.Puthalakath H, *et al.* (2001) Bmf: a proapoptotic BH3-only protein regulated by interaction with the myosin V actin motor complex, activated by anoikis. Science. 293(5536):1829-32.

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