RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Recombinant c-jun / Transcription factor AP1, Maltose Binding Protein fusion

Catalog No.	**Source**
228-10238	*E.Coli*

Synonyms

Transcription factor AP-1, Activator protein 1, AP1, Proto-oncogene c-jun, V-jun avian sarcoma virus 17 oncogene homolog, p39, c-Jun.

Introduction

C-JUN is a gene which, in combination with c-Fos, forms the AP-1early response transcription factor. C-JUN is activated by the JNKpathway. C-JUN is the putative transforming gene of avian sarcoma virus 17. C-JUN is a protein which is highly similar to the viral protein, and which interacts directly with specific target DNA sequences to regulate gene expression. The C-JUN gene is intronless and is mapped to 1p32-p31, a chromosomal region involved in both translocations and deletions in human malignancies.

Description

C-JUN amino acids 1-81 produced in E.coli, is a non-glycosylated, polypeptide chain having a molecular mass of 52 kDa.
C-JUN is a maltose binding protein (MBP) fusion protein with an amino-terminal polyhistidine tag and purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

C-JUN is supplied as lyophilized powder containing no additives.

Solubility

It is recommended to centrifuge the vial prior to opening in order to bring the contents to the bottom. The reconstitution of the lyophilized c-Jun is recommended in 40mM Tris, pH 7.5, to a concentration of 0.2-1.0 mg/ml.

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Storage Conditions

Store at 4°C if entire vial will be used within 1-2 weeks. Store frozen at -20°C for longer periods of time. **Avoid multiple freeze-thaw cycles.**

Biological Activity

C-Jun is phosphorylatable in vitro, using either recombinant active JNK1 or JNK2, or with JNK immunoprecipitated from stimulated cells. This phosphorylation can be monitored by Western blot analysis using an antibody directed to c-Jun [pS73], in conjunction with chemiluminescence detection methods. Optimization of the cell stimulation protocol, cell lysis procedure, and reaction conditions may be required for each specific application.

Please note

Kinase activity may vary depending on the substrate and reaction conditions.

Purity

Greater than 95% as determined by SDS-PAGE.