

# Bivalirudin

*Bivalirudin*  
NTP0011

## Product Overview

Name Bivalirudin

### Description

Bivalirudin

### Synonyms

Tyrosine-protein kinase Blk, B lymphocyte kinase, p55-Blk, BLK, MODY11, MGC10442.

### Introduction

B lymphoid kinase (BLK) is a 55kDa tyrosine kinase with SH3, SH2, and catalytic domains which contain consensus sequences of the Src protein tyrosine kinase family. BLK is a nonreceptor tyrosine-kinase belonging to the src family of proto-oncogenes which are typically involved in cell proliferation and differentiation. The BLK protein is expressed specifically in the B cell lineage and has a role in the signal-transduction pathway which is restricted to B lymphoid cells. In addition, BLK stimulates ins. synthesis and secretion in response to glucose and increases the expression of several pancreatic beta-cell transcription factors.

### Source

Escherichia Coli.

### Physical Appearance

Sterile Filtered colorless solution.

### Formulation

BLK protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 30% glycerol, 0.1M NaCl, 1mM DTT and 0.1mM PMSF.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Purity

Greater than 80.0% as determined by SDS-PAGE.

### Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGLVSSKKPD KEKPIKEKDK GQWSPLKVSA QDKDAPPLPP LVVFNHLTPP  
PPDEHLDLDEK HFVVALYDYT AMNDRDLQML KGEKLQVLKG TGDWWLARS LVTGREGYVPS NFVARVESLE  
MERWFFRSQG RKEAERQLLA PINKAGSFLI RESETNKGAF SLSVKDVTQ GELIKHYKIR CLDEGGYYIS

PRITFPSLQA LVQHYSKKGD GLCQRLTLPC VRPAPQNPWA QDEWEIPRQS LRLVRKLGSG QFGEVWMGY  
KNNMKVAIKT LKEGTMSPEA FLGEANVMKA LQHERLVRLY AVVTKEPIYI VTEYMARGCL LDFLKTDEGS  
RLSLPRLIDM SAQIAEGMAY IERMNSIHRD LRAANILVSE ALCCKIADFG LARIIDSEYT AQEGAKFPIK  
WTAPEAIHFG VFTIKADVWS FGVLLMEVVT YGRVPYPGMS NPEVIRNLER GYRMPRPDTC PPELYRGVIA  
ECWRSRPEER PTFEFLQSVL EDFYTATERQ YELQP.

### Precautions

Bivalirudin is for research use only and not for use in diagnostic or therapeutic procedures.