Recombinant Human BMX Non-receptor Tyrosine Kinase, Active

Cat. No. BMX-654H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	E.coli
Description	The BMX gene encodes a non-receptor tyrosine kinase, which may play a role in the growth and differentiation of hematopoietic cells. The BMX gene is located on chromosomal band Xp22.2 between the DXS197 and DXS207 loci. Interestingly, chromosome X also contains the closest relative of BMX, the BTK gene, implicated in X-linked agammaglobulinemia. BMX, is found to induce activation of the Stat signaling pathway.
Biochem/physiol Actions	The BMX gene encodes a novel non-receptor tyrosine kinase, which may play a role in the growth and differentiation of hematopoietic cells. Bmx induces the activation of the Stat-signaling pathway.
Unit Definition	Kinase activity is measured as the molar amount of phosphate incorporated into Poly Glu-Tyr substrate per minute per mg protein at 30 °C using a final concentration of 50 µM [32P]-ATP.
Physical Form	Solution of 50 µL in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM EGTA, and 30% glycerol.

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Assay	≥85% (SDS-PAGE).
Form	buffered aqueous glycerol solution.
Mol Wt	apparent mol wt ~110 kDa.
Storage Temp	−70°C.
Pathways	Apoptosis

GENE INFORMATION

Gene Name	BMX BMX non-receptor tyrosine kinase [Homo sapiens]
Synonyms	BMX non-receptor tyrosine kinase; ETK; PSCTK2; PSCTK3; BMX; OTTHUMP00000022965; NTK38 tyrosine kinase; Etk/Bmx cytosolic tyrosine kinase; cytoplasmic tyrosine-protein kinase BMX; EC 2.7.10.2; NTK38; OTTHUMP00000022964; OTTHUMP00000022966; Epithelial and endothelial tyrosine kinase; Bone marrow tyrosine kinase gene in chromosome X protein
Gene ID	660
mRNA Refseq	NM_001721
Protein Refseq	NP_001712
MIM	300101
UniProt ID	P51813
Chromosome	Xp22.2

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Location	
Function	non-membrane spanning protein tyrosine kinase activity; ATP binding; metal ion binding; nucleotide binding; protein binding; signal transducer activity; transferase activity; zinc ion binding

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