

Recombinant Human BAK1

Cat. No. BAK1-26168TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 100-211 of Human Bak with an N terminal proprietary tag; Predicted MWt 37.95 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	112 amino acids
Description	The protein encoded by this gene belongs to the BCL2 protein family. BCL2 family members form oligomers or heterodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. This protein localizes to mitochondria, and functions to induce apoptosis. It interacts with and accelerates the opening of the mitochondrial voltage-dependent anion channel, which leads to a loss in membrane potential and the release of cytochrome c. This protein also interacts with the tumor suppressor P53 after exposure to cell stress.
Molecular Weight	37.95kDa inclusive of tags
Tissue specificity	Expressed in a wide variety of tissues, with highest levels in the heart and skeletal muscle.
Form	Liquid
Purity	Proprietary Purification

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	LQPTAENAYEYFTKIATSLFESGINWGRVVALLGFGYRLA LHVYQHGLTGFLGQVTR FVVDFMLHHCIARWIAQRGGWVA ALNLGNPILNVLVVLGVLLGQFVVRFFKS
Sequence Similarities	Belongs to the Bcl-2 family.

GENE INFORMATION

Gene Name	BAK1 BCL2-antagonist/killer 1 [Homo sapiens]
Official Symbol	BAK1
Synonyms	BAK1; BCL2-antagonist/killer 1; CDN1; bcl-2 homologous antagonist/killer; BAK; BCL2L7;
Gene ID	578
mRNA Refseq	NM_001188
Protein Refseq	NP_001179
MIM	600516
Uniprot ID	Q16611
Chromosome Location	6p21.31

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Pathway

Activation and oligomerization of BAK protein, organism-specific biosystem;
Apoptosis, organism-specific biosystem; Apoptosis, organism-specific biosystem;
Direct p53 effectors, organism-specific biosystem; Intrinsic Pathway for Apoptosis,
organism-specific biosystem;

Function

BH domain binding; chaperone binding; heat shock protein binding; identical protein
binding; metal ion binding;

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