



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PAK3 Pre-design Chimera RNAi

Catalog # : H00005063-R02

規格 : [10 nmol] [20 nmol]

List All

Specification

Product Description: Homo sapiens p21 (CDKN1A)-activated kinase 3 (PAK3), mRNA.

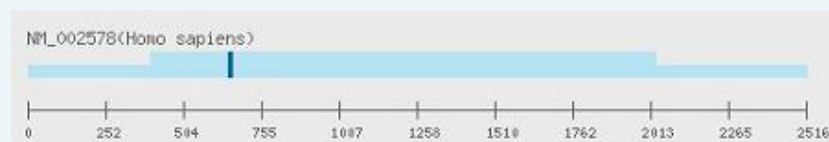
Reactivity: Human

Supplied Product: DEPC water

Target Refseq: NM_002578

Storage Instruction: Store at -20°C, do not exceed 4 - 5 freeze-thaw cycles to ensure product integrity.

Note: Position of the Chimera RNAi.



Application Image

RNAi Knockdown

Publication Reference

- [dsCheck: highly sensitive off-target search software for double-stranded RNA-mediated RNA interference.](#)
Naito Y, Yamada T, Matsumiya T, Ui-Tei K, Saigo K, Morishita S. *Nucleic Acids Res.* 2005 Jul 1;33(Web Server issue):W589-91.
- [Functional dissection of siRNA sequence by systematic DNA substitution: modified siRNA with a DNA seed arm is a powerful tool for mammalian gene silencing with significantly reduced off-target effect.](#)
Ui-Tei K, Naito Y, Zenno S, Nishi K, Yamato K, Takahashi F, Juni A, Saigo K. *Nucleic Acids Res.* 2008 Apr;36(7):2136-51. Epub 2008 Feb 11.
- [Guidelines for the selection of highly effective siRNA sequences for mammalian and chick RNA interference.](#)
Ui-Tei K, Naito Y, Takahashi F, Haraguchi T, Ohki-Hamazaki H, Juni A, Ueda R, Saigo K. *Nucleic Acids Res.* 2004 Feb 9;32(3):936-48. Print 2004.
- [siDirect: highly effective, target-specific siRNA design software for mammalian RNA interference.](#)
Naito Y, Yamada T, Ui-Tei K, Morishita S, Saigo K. *Nucleic Acids Res.* 2004 Jul 1;32(Web Server issue):W124-9.

Applications

RNAi Knockdown

Gene Information

Entrez GeneID: 5063

Gene Name: PAK3

Gene Alias: CDKN1A,MRX30,MRX47,OPHN3,PAK3beta,bPAK,hPAK3

Gene p21 protein (Cdc42/Rac)-activated kinase 3

Description:

Omim ID: [300142](#), [300558](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: PAK proteins are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. PAK proteins, a family of serine/threonine p21-activating kinases, serve as targets for the small GTP binding proteins Cdc42 and RAC and have been implicated in a wide range of biological activities. The protein encoded by this gene forms an activated complex with GTP-bound RAS-like (P21), CDC2 and RAC1 proteins which then catalyzes a variety of targets. This protein may be necessary for dendritic development and for the rapid cytoskeletal reorganization in dendritic spines associated with synaptic plasticity. Defects in this gene are the cause of non-syndromic mental retardation X-linked type 30 (MRX30), also called X-linked mental retardation type 47 (MRX47). Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq]

Other Designations: OTTHUMP00000023855, OTTHUMP00000062894, beta-PAK, oligophrenin-3, p21 (CDKN1A)-activated kinase 3, p21-activated kinase 3, p21-activated kinase-3, serine/threonine-protein kinase PAK 3

Gene Pathway

[Axon guidance](#) [ErbB signaling pathway](#) [Focal adhesion](#) [Regulation of actin cytoskeleton](#)
[Renal cell carcinoma](#) [T cell receptor signaling pathway](#)

Related Disease

[Chronic Disease](#) [Cognition Disorders](#) [Endometrial Neoplasms](#)
[Genetic Predisposition to Disease](#) [Neuropsychological Tests](#) [Schizophrenia](#) [Schizophrenia](#)