



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Datasheet

### MAP2K5 (Human) Recombinant Protein (P01)

**Catalog Number:** H00005607-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human MAP2K5 full-length ORF (AAH08838, 1 a.a. - 448 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

MLWLALGPFAMENQVLVIRIKIPNSGAVDWTVHSGP  
QLLFRDVLVDVIGQVLPEATTTAFYEDEDGDRITVRS  
EEMKAMLSYYYSTVMEQQVNGQLIEPLQIFPRACKPP  
GERNIHGLKVNTRAGPSQHSPPAVSDSLPSNSLKKSS  
AELKKILANGQMNEQDIRYRDTLGHGNGGTVYKAYHV  
PSGKILAVKILLDITLLELQKQIMSELEILYKCDSSYIIGFY  
GAFFVENRISICTEFMDGGSLDVYRKMPHEHVLGRIAVA  
VVKGLTYLWSLKILHRDVKPSNMLVNTRGQVKLCDFG  
VSTQLVNSIAKTYVGTNAYMAPERISGEQYGIHSDVWS  
LGISFMELALGRFPYPQIQKNQGLMPLQLLQCIVDED  
SPVLPVGESSEPFVHFITQCMRKQPKERPAPPEELMGH  
PFIVQFNDGNAAVVSMWVCRALEREERSQQGPP

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 75.02

**Applications:** AP, Array, ELISA, WB-Re  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

**Storage Buffer:** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction:** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 5607

**Gene Symbol:** MAP2K5

**Gene Alias:** HsT17454, MAPKK5, MEK5, PRKMK5

**Gene Summary:** The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase specifically interacts with and activates MAPK7/ERK5. This kinase itself can be phosphorylated and activated by MAP3K3/MEKK3, as well as by atypical protein kinase C isoforms (aPKCs). The signal cascade mediated by this kinase is involved in growth factor stimulated cell proliferation and muscle cell differentiation. Four alternatively spliced transcript variants of this gene encoding distinct isoforms have been described. [provided by RefSeq]

**References:**

1. Ubiquitin-dependent regulation of MEKK2/3-MEK5-ERK5 signaling module by XIAP and cIAP1. Takeda AN, Oberoi-Khanuja TK, Glatz G, Schulenburg K, Scholz RP, Carpy A, Macek B, Remenyi A, Rajalingam K EMBO J. 2014 Jun 28. pii: e201487808.
2. Copper is required for oncogenic BRAF signalling and tumorigenesis. Brady DC, Crowe MS, Turski ML, Hobbs GA, Yao X, Chaikuad A, Knapp S, Xiao K, Campbell SL, Thiele DJ, Counter CM Nature. 2014 Apr 9. doi: 10.1038/nature13180.
3. G{alpha}q acts as an adaptor protein in PKC{zeta}-mediated ERK5 activation by GPCR. Garcia-Hoz C, Sanchez-Fernandez G, Diaz-Meco MT, Moscat J, Mayor F, Ribas C. J Biol Chem. 2010 Mar 3. [Epub ahead of print]