

# Product Datasheet

## ERK1 Inhibitor Peptide Set

### NBP2-29333

Unit Size: 2 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**NBP2-29333****ERK1 Inhibitor Peptide Set**

<b>Product Information</b>	
<b>Unit Size</b>	2 mg
<b>Concentration</b>	Lyoph
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Reconstitution Instructions</b>	Please contact technical support for detailed reconstitution instructions.
<b>Product Description</b>	
<b>Gene ID</b>	5595
<b>Gene Symbol</b>	MAPK3
<b>Species</b>	Human, Mouse, Rat, Hamster, Rabbit, Xenopus
<b>Reactivity Notes</b>	Broad; the peptide sequence is 100% conserved among multiple species.
<b>Specificity/Sensitivity</b>	<p>The ERK inhibitory peptide also contains a protein transduction (PTD) sequence (DRQIKIWFQNRRMKWKK) derived from antennapedia which renders the peptide cell permeable.</p> <p>The control peptide consists of only the PTD sequence.</p>
<b>Immunogen</b>	Functions as a MEK decoy by binding to ERK.
<b>Preparation Method</b>	<p>Preparation of 5 mM Stock Solutions PBS* is added directly to the vials to prepare the stock solutions. Note: Bring the solution to room temperature and quick spin the tubes before opening the caps.</p> <p>ERK Inhibitor Peptide: 1 mg of DRQIKIWFQNRRMKWKKGMPKKKPTPIQLN Add 53 ul of PBS* to the vial to make a 5 mM stock solution. Mix by vortexing. Aliquot and store at -20C or -80C. Avoid repeated freeze thawing.</p> <p>Control Peptide: 1 mg of DRQIKIWFQNRRMKWKK Add 84.8 ul PBS* to the vial. Mix by vortexing. Aliquot and store at 20C or -80C. Avoid repeated freeze thawing.</p> <p>Recipe for 1X PBS: 1. Dissolve the following in 800ml distilled H2O. -8g of NaCl -0.2g of KCl -1.44g of Na2HPO4 -0.24g of KH2PO4 2. Adjust pH to 7.5 with HCl. 3. Adjust volume to 1L with additional distilled H2O. 4. Sterilize by autoclaving.</p>
<b>Inhibitor Family</b>	ERK
<b>Inhibitor Content</b>	ERK Inhibitor peptide: 2 x 1 mg (lyophilized) DRQIKIWFQNRRMKWKKGMPKKKPTPIQLN (ERK inhibitor sequence: GMPKKKPTPIQLN). Molecular weight: 3795. Antennapedia Control peptide: 2 x 1 mg (lyophilized) DRQIKIWFQNRRMKWKK. Molecular weight: 2361

**Product Application Details**

**Application Notes**

Inhibition of Erk activation.

The inhibitor peptide is to block ERK activation by MEK. Optimal peptide concentrations and incubation times vary between model systems and should be determined empirically by users. A 100 uM final concentration may be a useful starting point.

Please refer to Kalemien et al (2002) for additional information about how the inhibitor peptide has been used to block ERK activation by MEK.



## Procedures

### Material Safety Datasheet (NBP2-29333)

ERK1 Inhibitor Peptide Set:

Hazard Information

Chemical Name: Non hazardous products

Chemical Formula: N/A

CAS Number: N/A

EEC-No: N/A

Hazard Identification

None

First Aid Measures

Eye Contact: None

Skin Contact: None

Inhalation: None

Ingestion: None

Accidental Release Measures

This product either does not contain hazardous constituents or the concentration of all chemical constituents are below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29 CFR 1910.1200 and the European Directive 91/155/EEC. 88/379/EEC, and 67/546/EEC.

Handling and Storage

Exposure Controls / Personal Protection

Other Precautions: None

Physical and Chemical Properties

Form: N/A

Color: N/A

Odor: N/A

Melting Point: N/A

Boiling Temperature: N/A

Density: N/A

Vapor Pressure: N/A

Solubility in Water: N/A

Flash Point: N/A

Explosion limits: N/A

Ignition Temperature: N/A





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-29333**

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NBP1-48333-0.1mg	Recombinant Human ERK1 His Protein
236-EG-200	EGF [Unconjugated]
NBP2-22203	ERK1 Antibody (1E5)
210-TA-005	TNF-alpha [Unconjugated]

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Inhibitors are guaranteed for 1 year from date of receipt.

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