

Product Datasheet

ERK1 Inhibitor Peptide Set

NBP2-31229-1mg

Unit Size: 1 mg

Store at -20C. Avoid freeze-thaw cycles.

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NBP2-31229-1mg**ERK1 Inhibitor Peptide Set**

Product Information	
Unit Size	1 mg
Concentration	Lyoph
Storage	Store at -20C. Avoid freeze-thaw cycles.
Reconstitution Instructions	Please contact technical support for detailed reconstitution instructions.
Buffer	Lyophilized white powder
Product Description	
Gene ID	5595
Gene Symbol	MAPK3
Species	Human, Mouse, Rat, Hamster, Rabbit, Xenopus
Reactivity Notes	Broad; the peptide sequence is 100% conserved among multiple species. Reactivity includes human, mouse, rat, hamster, rabbit, and xenopus.
Specificity/Sensitivity	The ERK inhibitory peptide also contains a protein transduction (PTD) sequence (DRQIKIWFQNRRMKWKK) derived from antennapedia which renders the peptide cell permeable.
Immunogen	DRQIKIWFQNRRMKWKKGMPKKKPTPIQLN (ERK inhibitor sequence: GMPKKKPTPIQLN).
Preparation Method	<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>
Notes	Functions as a MEK decoy by binding to ERK.
Inhibitor Family	ERK
Inhibitor Content	ERK Inhibitor peptide: 2 x 1 mg (lyophilized) DRQIKIWFQNRRMKWKKGMPKKKPTPIQLN (ERK inhibitor sequence: GMPKKKPTPIQLN). Molecular weight: 3795.

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 (NBP2-31229)

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





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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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