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

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Concentration Lyoph Storage Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles. Reconstitution Instructions Please contact technical support for detailed reconstitution instructions. 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. Specificity/Sensitivity The ERK inhibitory peptide also contains a protein transduction (PTD) sequence (DRQIKIWFONRRMKWKK) derived from antennapedia which renders the peptide cell permeable. The control peptide consists of only the PTD sequence. Immunogen Functions as a MEK decoy by binding to ERK. Preparation Method 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. 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. Control Peptide: 1 mg of DRQIKIWFQNRRMKWKKGMPKKKPTPIQLN Add 48.8 ul PBS* to the vial. Mix by vortexing. Aliquot and store at 20C or -80C. Avoid repeated freeze thawing. 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 KRIPO4 -0.25g of KRIPO4 -0.26g of KRIPO4 -0.27g of KRIPO4 -0.28g of NaCl -0.29g of KRIPO4 -0.29g of KRIPO4 -0.29g of KRIPO4 -0.29g of KRIPO4 -0.29g of KRI	Product Information	
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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 Kalemen 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





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Products Related to NBP2-29333

NBP1-48333-0.1mg Recombinant Human ERK1 His Protein

236-EG-200 EGF [Unconjugated]

NBP2-22203 ERK1 Antibody (1E5) - BSA Free

210-TA-005 TNF-alpha [Unconjugated]

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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