

Product Datasheet

TRAF-6 Inhibitor Peptide Set

NBP2-31223-1mg

Unit Size: 1 mg

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

www.novusbio.com



technical@novusbio.com

Publications: 2

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP2-31223

Updated 12/30/2021 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NBP2-31223



NBP2-31223-1mg**TRAF-6 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	7189
Gene Symbol	TRAF6
Species	Human, Mouse, Rat
Specificity/Sensitivity	The TRAF6 inhibitory peptide also contains a protein transduction (PTD) sequence (DRQIKIWFQNRRMKWKK) derived from antennapedia which renders the peptide cell permeable. The control peptide consists of only the PTD sequence.
Immunogen	Functions as a TRAF6 decoy by binding to the T6DP motif of RANK, thereby preventing binding of RANK to TRAF6.
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>TRAF6 Inhibitor Peptide: 1 mg of DRQIKIFQNRRMKWKKRKIPTED EY Add 57.7 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>
Inhibitor Family	NFkB
Inhibitor Target	TRAF6
Inhibitor Content	TRAF6 Inhibitor peptide: 2 x 1 mg (lyophilized) DRQIKIWFQNRRMKWKKRKIPTED EY (TRAF6 binding sequence: RKIPTED EY). Molecular weight: 3494.
Product Application Details	
Applications	Block/Neutralize
Recommended Dilutions	Block/Neutralize

Application Notes

Inhibition of RANKL mediated osteoclast differentiation. Researchers can study the effect of TRAF6 inhibitor peptide using a variety of methods, such as EMSA, NF-kB/p65 ELISA, IκBa phosphorylation ELISA, osteoclast differentiation assay. The Osteoclast formation assay protocol is a guideline which may need to be optimized for different cell types. Use in blocking/neutralizing reported in scientific literature (PMID 27624059).

Publications

He LX, Tong X, Zeng J et al. Paeonol Suppresses Neuroinflammatory Responses in LPS-Activated Microglia Cells Inflammation 2016-09-13 [PMID: 27624059] (B/N, Mouse)

Wu T, Mester T, Gupta S et al. TSH and CD40L Stimulate Interleukin-12 Expression in Fibrocytes: Implications for pathogenesis of Thyroid Associated Ophthalmopathy Thyroid 2016-09-09 [PMID: 27612658] (Control, B/N, Human)



Procedures

Assay Instruction Manual (NBP2-31223)

Osteoclast Formation Assay:

Treatment of mouse spleen cells with soluble RANKL together with MCSF induces osteoclast formation from spleen cells. This procedure is now being routinely used by various laboratories to study induction of osteoclast differentiation.

1. Culture mouse spleen or bone marrow cells (7×10^5 cells) obtained from 6- to 15-week old male mice or RAW264.7 (1×10^5 /well) (a mouse macrophage cell line) for 4-5 days in a 24-well plate in DMEM medium containing 10% fetal calf serum (FCS), 20 ng/ml human M-CSF (R&D Biosystems, Inc.), 30 ng/ml of RANKL.
2. Add different amount of control and T6DP peptides at the beginning of culture.
3. On day 3, change the medium with additives listed above including T6DP.
4. Evaluate differentiation of spleen cells, bone marrow cells, and RAW cells into osteoclasts by measuring tartrate-resistant acid phosphate (TRAP) activity. TRAP positive cells with more than 3 nuclei are considered as osteoclasts. TRAP-positive cells are detected between day 7 and 10 (BM) or on day 5 (RAW264.7).

Material Safety Datasheet (NBP2-31223)

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

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP2-31223

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

