

Product Datasheet

TRAF-6 Inhibitor Peptide Set **NBP2-31223-1mg**

Unit Size: 1 mg

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

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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 DRQIKIWFQNRRMKWKKRKPTEDEY 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) DRQIKIWFQNRRMKWKKRKPTEDEY (TRAF6 binding sequence: RKIPTEDEY). 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- κ B/p65 ELISA, I κ B 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



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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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