# **Product Datasheet**

# Imidazoquinoline Resiquimod (R-848), TLR7 and TLR8 ligand NBP2-26231-5mg

Unit Size: 5 mg

Store at -20 °C.

www.novusbio.com

techr

technical@novusbio.com

#### **Publications: 8**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at: www.novusbio.com/NBP2-26231

Updated 7/29/2024 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/NBP2-26231

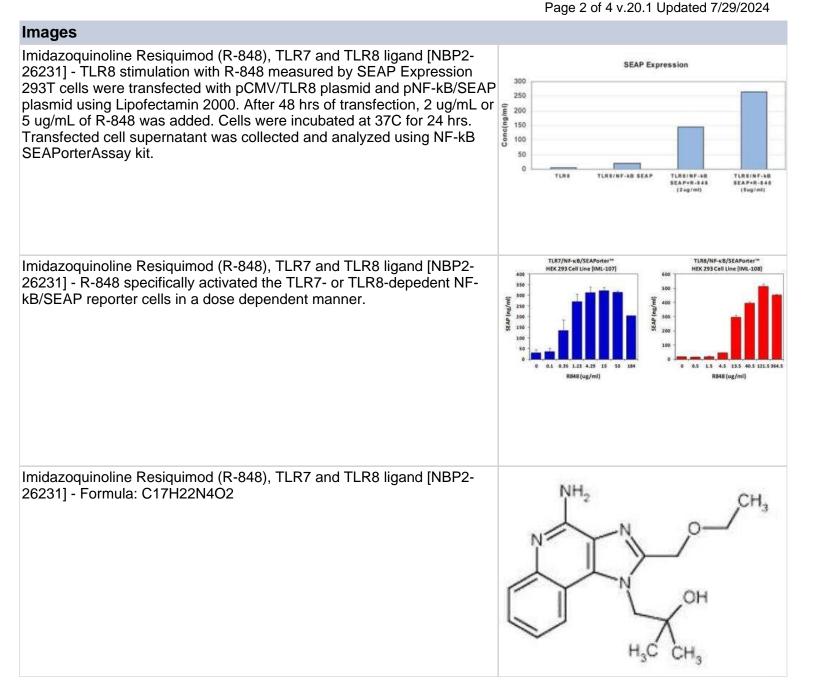


## NBP2-26231-5mg

Imidazoquinoline Resiquimod (R-848), TLR7 and TLR8 ligand

Product Information	
Unit Size	5 mg
Concentration	Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.
Storage	Store at -20 °C.
Reconstitution Instructions	Dissolve in DMSO at a concentration of 10 mg/ml. If the substance is not fully soluble, it can be heated up to 60C to ensure complete solubilization. Also soluble in dichloromethane, 100% or 5% methanol; poorly soluble in acetonitrile or ethyl acetate.
Purity	>98%, by HPLC.
Product Description	
Description	CAS#: 144875-48-9.
Species	Human
Reactivity Notes	Human reactivity reported in scientific literature (PMID: 25532693)
Product Application Details	
Applications	Functional
<b>Recommended Dilutions</b>	Functional
Application Notes	Identity determined by MS, 1H-NMR and 13C-NMR. This product is useful for activation of mouse TLR7 and human TLR7 and TLR8. Stimulation of TLR8 has been achieved with 0.5-5 ug/mL. Use in functional assays reported in scientific literature (PMID 26134251).







#### **Publications**

Huang M, Cao XY, He QF et al. Alkaline semen diluent combined with R848 for separation and enrichment of dairy goat X-sperm Journal of dairy science 2022-10-18 [PMID: 36270871] (Func)

Flores-Torres AS, Rendon A, Salinas-Carmona MC Et al. Human Eosinophils Reduce Viral Titer, Secrete IL-8, and Increase RIG-I Expression in Response to Influenza A H1N1 pdm09 Viral immunology 2021-08-19 [PMID: 34415814]

Valenzuela RA, Suter SR, Ball-Jones AA et al. Base modification strategies to modulate immune stimulation by an siRNA. Chembiochem. 2015-01-19 [PMID: 25487859] (Func, Human)

Umehara T, Tsujita N, Shimada M Activation of Toll-like receptor 7/8 encoded by the X chromosome alters sperm motility and provides a novel simple technology for sexing sperm PLoS Biol. 2019-08-01 [PMID: 31408454]

Johnson RH, kho DT, O' Carroll Sj et al. The functional and inflammatory response of brain endothelial cells to Toll-Like Receptor agonists. Sci Rep. 2018-07-04 [PMID: 29973684] (Func, Human)

Pietrzak-Nguyen A, Piradashvili K, Fichter M et al. MPLA-coated hepatitis B virus surface antigen (HBsAg) nanocapsules induce vigorous T cell responses in cord blood derived human T cells. Nanomedicine 2016-08-08 [PMID: 27516081]

Datta S, Barrera N, Pavicic PG et al. cEBP Homologous Protein Expression in Macrophages Regulates the Magnitude and Duration of IL-6 Expression and Dextran Sodium Sulfate Colitis J. Interferon Cytokine Res. 2015-07-02 [PMID: 26134251] (Func)

Valenzuela RA, Suter SR, Ball-Jones AA et al. Base Modification Strategies to Modulate Immune Stimulation by an siRNA. Chembiochem. 2014 Dec 08 [PMID: 25532693] (Human)

Details: human PBMCs







#### 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@biotechne.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. Support products are guaranteed for 6 months 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/NBP2-26231

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

