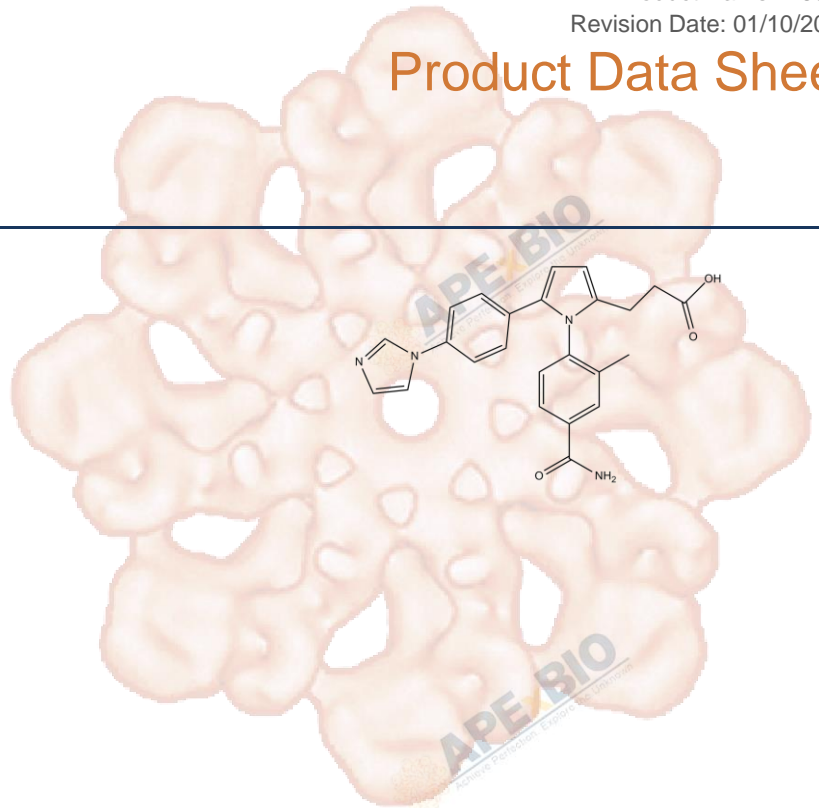


Product Data Sheet

N6022

Cat. No.:	B1111
CAS No.:	1208315-24-5
Formula:	C ₂₄ H ₂₂ N ₄ O ₃
M.Wt:	414.46
Synonyms:	
Target:	Others
Pathway:	GSNOR
Storage:	Store at -20°C



Solvent & Solubility

insoluble in EtOH; insoluble in H₂O; ≥20.7 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.4128 mL	12.0639 mL	24.1278 mL
	5 mM	0.4826 mL	2.4128 mL	4.8256 mL
	10 mM	0.2413 mL	1.2064 mL	2.4128 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

GSNOR inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Preparation method:

In Vivo

Animal experiment

Animal models: Female BALB/c mice model

Dosage form: 0.1 mg/kg to 10 mg/kg, i.v. for 1-48 h

Applications: N6022 dose-dependently decreased enhanced pause (Penh) and

Bronchoalveolar lavage fluid (BALF) eosinophils, increased bronchoalveolar lavage fluid (BALF) nitrite and plasma cyclic guanosine monophosphate (cGMP) in ovalbumin (OVA)-sensitized mice. Moreover, N6022 attenuated the OVA-induced increase in nuclear factor kappa B (NFκB) activation and decreased methacholine (MCh)-induced contraction in isolated rat tracheal rings.

Other notes:

Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

1. Green, L. S., Chun, L. E., Patton, A. K., Sun, X., Rosenthal, G. J. and Richards, J. P. (2012) Mechanism of inhibition for N6022, a first-in-class drug targeting S-nitrosoglutathione reductase. *Biochemistry*. 51, 2157-21682
2. Blonder, J. P., Mutka, S. C., Sun, X., Qiu, J., Green, L. H., Mehra, N. K., Boyanapalli, R., Suniga, M., Look, K., Delany, C., Richards, J. P., Looker, D., Scoggin, C. and Rosenthal, G. J. (2014) Pharmacologic inhibition of S-nitrosoglutathione reductase protects against experimental asthma in BALB/c mice through attenuation of both bronchoconstriction and inflammation. *BMC Pulm Med*. 14, 3

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



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