

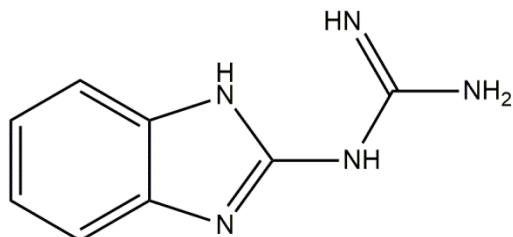
2-Guanidinobenzimidazole

04/21

ALTERNATE NAMES: 2GBI; 2-(1H-benzimidazol-2-yl)guanidine; (benzimidazol-2-ylamino)methanamide

CATALOG #: B3130-100 100 mg
B3130-500 500 mg

STRUCTURE:



MOLECULAR FORMULA: C₈H₉N₅

MOLECULAR WEIGHT: 175.19

CAS NUMBER: 5418-95-1

APPEARANCE: Off-white powder

PURITY: ≥ 95%

SOLUBILITY: ~50 mg/ml in DMSO

DESCRIPTION: 2-Guanidinobenzimidazole is an inhibitor of voltage-gated proton channel Hv1. It inhibits Hv1 proton conduction (10 μM-200 μM) by binding to the voltage-sensing domain. Inhibition of excessive Hv1 activity could be beneficial in ischemic stroke and cancer.

STORAGE TEMPERATURE: -20 °C

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCE: Hong, L., Kim, I.H., Tomobola, F. Molecular determinants of Hv1 proton channel inhibition by guanidine derivatives. Proc. Natl. Acad. Sci. USA, 111; 9971 (2014).

RELATED PRODUCTS:

Epothilone B (Cat. No. 2012)
Fangchinoline (Cat. No. B3240)
Cyclophosphamide monohydrate (Cat. No. 9657)
R-7050 (Cat. No. B3063)
Riluzole (Cat. No. B3068)

DISCLAIMER: *FOR RESEARCH USE ONLY! Not to be used on humans.*