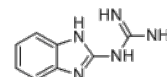


Product Name : 2GBI
Cat. No. : PC-38295
CAS No. : 5418-95-1
Molecular Formula : C₈H₉N₅
Molecular Weight : 175.195
Target : Proton Pump
Solubility : 10 mM in DMSO



Biological Activity

2GBI (2-guanidinobenzimidazole) is a guanidine derivative that inhibits voltage-gated proton channel **Hv1** by binding to the VSD from its intracellular side.

2GBI also is an agonist directly targeting **NLRP3**, induces inflammasome activation, which is independent of potassium efflux, chloride efflux and mitochondrial dysfunction.

References

Hong L, et al. *Proc Natl Acad Sci U S A*. 2014 Jul 8;111(27):9971-6.

Gianti E, et al. *Proc Natl Acad Sci U S A*. 2016 Dec 27;113(52):E8359-E8368.

Geragotelis AD, et al. *Proc Natl Acad Sci U S A*. 2020 Jun 16;117(24):13490-13498.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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