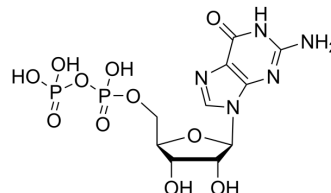


## Guanosine 5'-diphosphate

Cat. No.:	HY-113066
CAS No.:	146-91-8
Molecular Formula:	C <sub>10</sub> H <sub>15</sub> N <sub>5</sub> O <sub>11</sub> P <sub>2</sub>
Molecular Weight:	443.2
Target:	Endogenous Metabolite; Potassium Channel
Pathway:	Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Guanosine 5'-diphosphate (GDP) is a nucleoside diphosphate that activates adenosine 5'-triphosphate-sensitive K <sup>+</sup> channel. Guanosine 5'-diphosphate is a potential iron mobilizer, which prevents the hepcidin-ferroportin interaction and modulates the interleukin-6 (IL-6)/stat-3 pathway. Guanosine 5'-diphosphate can be used in the research of inflammation, such as anemia of inflammation (AI) <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	Human Endogenous Metabolite

### CUSTOMER VALIDATION

- Int J Mol Sci. 2022 Oct 27;23(21):13058.
- Endocrinology. 2023 Jul 24;bqad114.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

- [1]. S Kajioka, et al. Guanosine diphosphate activates an adenosine 5'-triphosphate-sensitive K<sup>+</sup> channel in the rabbit portal vein. J Physiol. 1991 Dec;444:397-418.
- [2]. Angmo S, et al. Identification of Guanosine 5'-diphosphate as Potential Iron Mobilizer: Preventing the Hepcidin-Ferroportin Interaction and Modulating the Interleukin-6/Stat-3 Pathway. Sci Rep. 2017 Jan 5;7:40097.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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