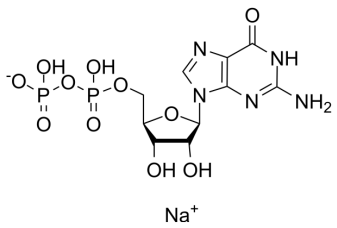
Guanosine 5'-diphosphate sodium

Cat. No.:	HY-113066C
CAS No.:	43139-22-6
Molecular Formula:	$C_{10}H_{14}N_5NaO_{11}P_2$
Molecular Weight:	465.18
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) sodium is a nucleoside diphosphate that activates adenosine 5'-triphosphate-sensitive K^+ channel. Guanosine 5'-diphosphate sodium is a potential iron mobilizer, which prevents the hepcidin-ferroportin interaction and modulates the interleukin-6 (IL-6)/stat-3 pathway. Guanosine 5'-diphosphate sodium can be used in the research of inflammation, such as anemia of inflammation (AI)[1][2].
IC_{50} & Target	K+ channel[1], endogenous metabolite[2].

CUSTOMER VALIDATION

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

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REFERENCES

[1]. S Kajioka, et al. Guanosine diphosphate activates an adenosine 5'-triphosphate-sensitive K+ 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.

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