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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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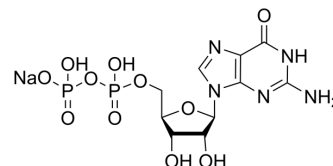
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Guanosine 5'-diphosphate (sodium), 96% (HPLC)

Cat. No.:	HY-113066C
CAS No.:	43139-22-6
Molecular Formula:	C ₁₀ H ₁₄ N ₅ NaO ₁₁ P ₂
Molecular Weight:	465.18
Target:	Endogenous Metabolite; Potassium Channel
Pathway:	Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 100 mg/mL (214.97 mM)

* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.1497 mL	10.7485 mL	21.4971 mL
	5 mM		0.4299 mL	2.1497 mL	4.2994 mL
	10 mM		0.2150 mL	1.0749 mL	2.1497 mL

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

BIOLOGICAL ACTIVITY

Description

Guanosine 5'-diphosphate (sodium), 96% (HPLC) is a nucleoside diphosphate that activates adenosine 5'-triphosphate-sensitive K⁺ channel. Guanosine 5'-diphosphate sodium, Type I, 96% (HPLC) 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), 96% (HPLC) can be used in the research of inflammation, such as anemia of inflammation (AI)^{[1][2]}.

IC₅₀ & Target

K⁺ channel^[1], endogenous metabolite^[2].

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

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 Heparin-Ferroportin Interaction and Modulating the Interleukin-6/Stat-3 Pathway. Sci Rep. 2017 Jan 5;7:40097.
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Caution: Product has not been fully validated for medical applications. For research use only.

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