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Zuschläge

- Mindermengenzuschlag
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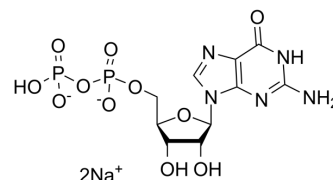
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Guanosine 5'-diphosphate disodium salt

Cat. No.:	HY-113066A
CAS No.:	7415-69-2
Molecular Formula:	C ₁₀ H ₁₃ N ₅ Na ₂ O ₁₁ P ₂
Molecular Weight:	487.16
Target:	Endogenous Metabolite; Potassium Channel
Pathway:	Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 62.5 mg/mL (128.29 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	2.0527 mL	10.2636 mL	20.5271 mL
		5 mM	0.4105 mL	2.0527 mL	4.1054 mL
		10 mM	0.2053 mL	1.0264 mL	2.0527 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS				
	Solubility: 100 mg/mL (205.27 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

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

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

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