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Zuschläge

- Mindermengenzuschlag
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- Expressversand

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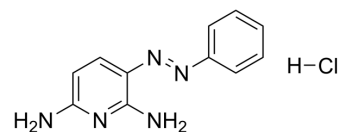
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Phenazopyridine hydrochloride (Standard)

Cat. No.:	HY-B0985R
CAS No.:	136-40-3
Molecular Formula:	C ₁₁ H ₁₂ ClN ₅
Molecular Weight:	249.7
Target:	TRP Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Phenazopyridine (hydrochloride) (Standard) is the analytical standard of Phenazopyridine (hydrochloride). This product is intended for research and analytical applications. Phenazopyridine hydrochloride is a competitive SARM1 inhibitor, with IC ₅₀ 145 μM. Phenazopyridine hydrochloride is a TRPM8 antagonist. Phenazopyridine hydrochloride has a local anesthetic/analgesic effect. Phenazopyridine hydrochloride is used to relieve painful symptoms of conditions such as cystitis and urethritis. Phenazopyridine hydrochloride can promote neuronal differentiation and can also be used in the study of traumatic brain injury, peripheral neuropathy and neurodegenerative diseases ^{[1][2][3][4][5]} .
IC₅₀ & Target	EC ₅₀ : 145 μM (SARM1) ^[1] .

REFERENCES

- [1]. Loring H S, et al. Identification of the first noncompetitive SARM1 inhibitors[J]. *Bioorganic & Medicinal Chemistry*, 2020, 28(18): 115644.
- [2]. Wang C, et al. Phenazopyridine promotes RPS23RG1/Rps23rg1 transcription and ameliorates Alzheimer-associated phenotypes in mice[J]. *Neuropsychopharmacology*, 2022, 47(12): 2042-2050.
- [3]. Aizawa N, et al. Effects of phenazopyridine on rat bladder primary afferent activity, and comparison with lidocaine and acetaminophen[J]. *Neurourology and Urodynamics*, 2010, 29(8): 1445-1450.
- [4]. Luyts N, et al. Inhibition of TRPM8 by the urinary tract analgesic drug phenazopyridine[J]. *European Journal of Pharmacology*, 2023, 942: 175512.
- [5]. Suter, David M et al. Phenazopyridine hydrochloride induces and synchronizes neuronal differentiation of embryonic stem cells. *Journal of cellular and molecular medicine* vol. 13,9B (2009): 3517-27.

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

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