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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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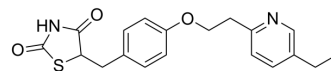
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Pioglitazone (Standard)

Cat. No.:	HY-13956R
CAS No.:	111025-46-8
Molecular Formula:	C ₁₉ H ₂₀ N ₂ O ₃ S
Molecular Weight:	356.44
Target:	PPAR; Ferroptosis
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pioglitazone (Standard) is the analytical standard of Pioglitazone. This product is intended for research and analytical applications. Pioglitazone (U 72107) is an orally active and selective PPAR γ (peroxisome proliferator-activated receptor) agonist with high affinity binding to the PPAR γ ligand-binding domain with EC ₅₀ of 0.93 and 0.99 μ M for human and mouse PPAR γ , respectively. Pioglitazone can be used in diabetes research ^{[2][3][4]} .
IC₅₀ & Target	EC ₅₀ : 0.93 μ M (human PPAR γ), 0.99 μ M (mouse PPAR γ) ^[1]

REFERENCES

- [1]. Kuwabara K, et al. A novel selective peroxisome proliferator-activated receptor alpha agonist, 2-methyl-c-5-[4-[5-methyl-2-(4-methylphenyl)-4-oxazolyl]butyl]-1,3-dioxane-r-2-carboxylic acid (NS-220), potently decreases plasma triglyceride and glucose level
- [2]. Puddu A, et al. Pioglitazone attenuates the detrimental effects of advanced glycation end-products in the pancreatic beta cell line HIT-T15. Regul Pept. 2012 Aug 20;177(1-3):79-84.
- [3]. Kubota N, et al. Pioglitazone ameliorates insulin resistance and diabetes by both adiponectin-dependent and -independent pathways. J Biol Chem. 2006 Mar 31;281(13):8748-55.
- [4]. Elrashidy RA, et al. Pioglitazone attenuates cardiac fibrosis and hypertrophy in a rat model of diabetic nephropathy. J Cardiovasc Pharmacol Ther. 2012 Sep;17(3):324-33.

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

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