Pioglitazone

PPARγ activator

Pioglitazone selectively activates PPARγ-1. It is about one tenth as potent as rosiglitazone (EC_{50}~500nM for human and mouse PPARγ). In a transactivation assay using COS-1 cells transfected with full length human PPARα and RXRα, pioglitazone and rosiglitazone exhibit low level activation of PPARα at 1μM and 5.4- and 4.2-fold activation, respectively, at a concentration of 10μM.

Thiazolidinediones (TZDs) are a group of structurally related PPARγ agonists with anti-diabetic actions in vivo. Rosiglitazone (Prod. No. ALX-350-125) is a prototypical TZD and has served as a reference compound for this class of PPARγ ligands.

Citations: 13 View Online »

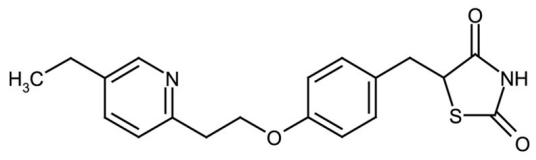
Ordering Information

Order Online »

ALX-270-367-M001	1mg
ALX-270-367-M005	5mg

Manuals, SDS & CofA

View Online »


H3C
N
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Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Handling	Protect from moisture.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Appearance	White to off-white solid.
CAS	111025-46-8
Couple Target	PPAR
Couple Type	Activator, Ligand
Formula	$C_{19}H_{20}N_2O_3S$
Identity	Confirmed by 1H-NMR
MI	**14:** 7452
MW	356.4
Purity	≥97% (HPLC)
Solubility	Soluble in DMSO (2.5mg/ml) or dimethyl formamide (2.5mg/ml).

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