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DATASHEET

Pioglitazone hydrochloride

Product overview

Name	Pioglitazone hydrochloride
Cat No	HB2554
Biological action	Agonist
Purity	>99%
Description	Selective PPAR γ agonist. Enhances mESCs proliferation and survival.


Biological Data

Biological description	Thiazolidinedione (TZD) derivative. Selective PPAR γ agonist (EC_{50} = 0.69 μ M which shows antidiabetic actions. Enhances mESCs proliferation and survival. Also improves survival of dissociated single hPSCs and increases colony formation by acting with synergistically Y-27632 .
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Solubility & Handling

Storage instructions	room temperature (desiccate)
Solubility overview	Soluble in DMSO (25mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	5-[[4-[2-(5-Ethyl-2-pyridinyl)-ethoxy]phenyl]methyl]-2,4-thiazolidinedione hydrochloride
Molecular Weight	392.9
Chemical structure	
Molecular Formula	$C_{19}H_{20}N_2O_3S \cdot HCl$
CAS Number	112529-15-4
PubChem identifier	60560
SMILES	<chem>CCC1=CN=C(C=C1)CCOC2=CC=C(C=C2)CC3C(=O)NC(=O)S3.Cl</chem>
InChi	InChI=1S/C19H20N2O3S.ClH/c1-2-13-3-6-15(20-12-13)9-10-24-16-7-4-14(5-8-16)11-17-18(22)21-19(23)25-17;/h3-8,12,17H,2,9-11H2,1H3,(H,21,22,23);1H
InChiKey	GHUUBYQTCDQWRA-UHFFFAOYSA-N
MDL number	MFCD04975446
Appearance	White solid