

## Product Information

### MSDC-0160, Purity $\geq$ 98%

**Cat. No.:** X24-09-YM1291

**Size:** 5 mg; 10 mg; 25 mg; 50 mg

**MDL:** MFCD00916084

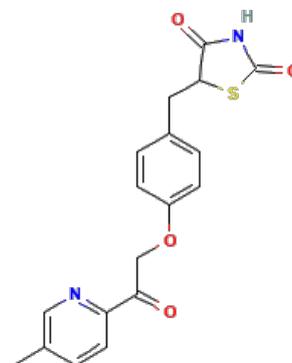
**CAS Number:** 146062-49-9

**Compound CID:** 10429242

**Synonym:** 146062-49-9; CAY10415; Mitoglitazone;

5-[[4-[2-(5-Ethylpyridin-2-yl)-2-oxoethoxy]phenyl]methyl]-1,3-thiazolidine-2,4-dione

**This product is for research use only and is not intended for diagnostic use.**



### Product Information

<b>Description</b>	MSDC-0160, soluble in DMSO and insoluble in water and ethanol, is a prototype mTOT-modulating insulin sensitizer. The molecular weight of the compound is 370.42, and its molecular formula is $C_{19}H_{18}N_2O_4S$ .
<b>Molecular Weight</b>	370.42
<b>Molecular Formula</b>	$C_{19}H_{18}N_2O_4S$
<b>IUPAC Name</b>	5-[[4-[2-(5-Ethylpyridin-2-yl)-2-oxoethoxy]phenyl]methyl]-1,3-thiazolidine-2,4-dione
<b>InChI</b>	InChI=1S/C19H18N2O4S/c1-2-12-5-8-15(20-10-12)16(22)11-25-14-6-3-13(4-7-14)9-17-18(23)21-19(24)26-17/h3-8,10,17H,2,9,11H2,1H3,(H,21,23,24)
<b>InChI Key</b>	IRNJSRAGRIZIHD-UHFFFAOYSA-N
<b>Canonical SMILES</b>	<chem>CCC1=CN=C(C=C1)C(=O)COC2=CC=C(C=C2)CC3C(=O)NC(=O)S3</chem>
<b>Form</b>	Lyophilized powder
<b>Purity</b>	$\geq$ 98%
<b>Impurities</b>	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
<b>Solubility</b>	<i>In vitro</i> : DMSO: 0.01 mg/mL (0.02 mM); Water: insoluble; Ethanol: insoluble
<b>Identity</b>	Confirmed by NMR/HPLC/MS.
<b>Stability</b>	In its lyophilized form, the chemical remains stable for 36 months.
<b>Quality Level</b>	Research grade
<b>Applications</b>	MSDC-0160 plays a key role in improving insulin sensitivity and enhancing glucose metabolism through modulation of mitochondrial function.
<b>Storage</b>	Store at $-20^{\circ}C$ , and keep desiccated.



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