

**Product Name:** Selexipag

**Catalog No.:** 3351

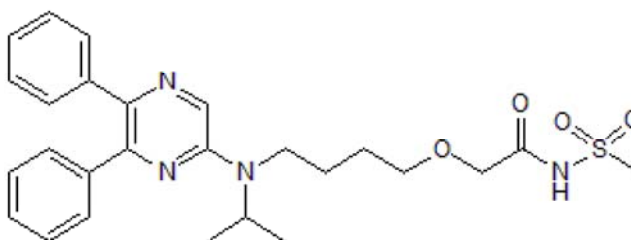
**Batch No.:** 3

CAS Number: 475086-01-2

IUPAC Name: 2-[4-[(5,6-Diphenyl-2-pyrazinyl)(1-methylethyl)amino]butoxy]-N-(methylsulfonyl)acetamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>26</sub>H<sub>32</sub>N<sub>4</sub>O<sub>4</sub>S  
**Batch Molecular Weight:** 496.62  
**Physical Appearance:** Off-white solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	62.88	6.49	11.28
Found	62.87	6.54	11.38

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Selective prostacyclin IP<sub>1</sub> receptor agonist (K<sub>i</sub> values are 260 and 2100 nM and for human and rat IP receptors, and >10 μM for EP<sub>1-4</sub>, DP, FP, and TP receptors). Prodrug for the active form of MRE 269. Ameliorates vascular endothelial dysfunction and increases femoral skin blood flow in rats. Orally available.

**Physical and Chemical Properties:**

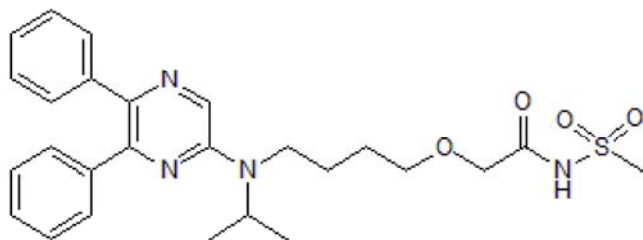
Batch Molecular Formula: C<sub>26</sub>H<sub>32</sub>N<sub>4</sub>O<sub>4</sub>S

Batch Molecular Weight: 496.62

Physical Appearance: Off-white solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**Licensing Information:**

Sold with the permission of Nippon Shinyaku Co.

**References:**

**Morrison et al** (2010) Selexipag: a selective prostacyclin receptor agonist that does not affect rat gastric function. *J.Pharmacol.Exp.Ther.* **335** 249. PMID: 20660124.

**Kuwano et al** (2008) A long-acting and highly selective prostacyclin receptor agonist prodrug, 2-{4-[(5,6-diphenylpyrazin-2-yl)(isopropyl)amino]butoxy}-N-(methylsulfonyl)acetamide (NS-304), ameliorates rat pulmonary hypertension with unique relaxant responses of its active fo *J.Pharmacol.Exp.Ther.* **326** 691. PMID: 18552131.

**Kuwano et al** (2007) 2-[4-[(5,6-diphenylpyrazin-2-yl)(isopropyl)amino]butoxy]-N-(methylsulfonyl)acetamide (NS-304), an orally available and long-acting prostacyclin receptor agonist prodrug. *J.Pharmacol.Exp.Ther.* **322** 1181. PMID: 17545310.

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