

# Riociguat

Catalog No: tcsc0584



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg

**Size:** 200mg



## Specifications

**CAS No:**

625115-55-1

**Formula:**

$C_{20}H_{19}FN_8O_2$

**Pathway:**

GPCR/G Protein

**Target:**

Guanylate Cyclase

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 50$  mg/mL (118.37 mM)

**Alternative Names:**

BAY 632521

**Observed Molecular Weight:**

422.42

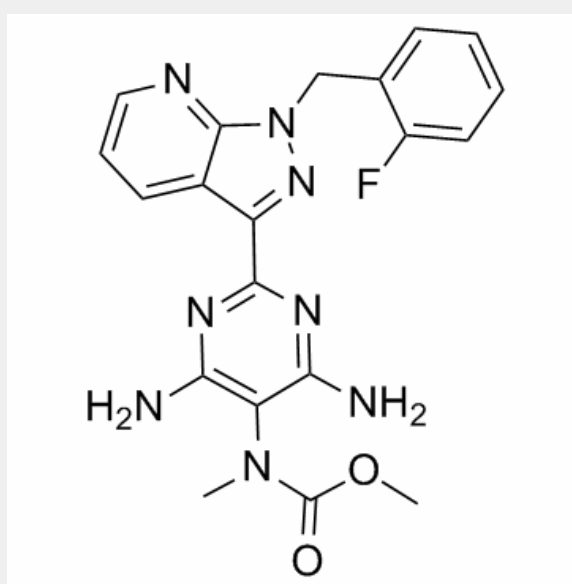
**Product Description**

Riociguat is an oral stimulator of soluble guanylate cyclase (**sGC**) used in the treatment of pulmonary hypertension.

IC<sub>50</sub> & Target: sGC<sup>[1]</sup>

**In Vitro:** Riociguat stimulates the recombinant sGC concentration dependently from 0.1 to 100  $\mu$ M with a two-fold to 73-fold effect by an NO-independent but haem-dependent mechanism<sup>[1]</sup>. Riociguat inhibits platelet function in washed platelets but not in whole blood, and exerts no direct effects on contractility and relaxation of cardiac myocytes<sup>[2]</sup>.

**In Vivo:** Riociguat (10 mg/kg/d, p.o.) partially reverses the pulmonary arterial hypertension, the right heart hypertrophy and the structural remodelling of the lung vasculature in chronic treatment of hypoxic mice and MCT-injected rats<sup>[1]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!