**Product Name**: PQR620  
**Catalog Number**: T5472  
**CAS Number**: 1927857-56-4  
**Molecular Formula**: C21H25F2N7O2  
**Molecular Weight**: 445.48

**Description**: PQR620 is a novel potent and selective, brain penetrant inhibitor of mTORC1/2.

**Storage**: 2 years -80°C in solvent; 3 years -20°C powder;

**Solubility**

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Solubility</th>
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<tr>
<td>DMSO</td>
<td>6.4 mg/mL (14.37 mM)</td>
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(< 1 mg/ml refers to the product slightly soluble or insoluble)

**Receptor (IC50)**

**In vitro Activity**

PQR620 is a potent and selective mTOR inhibitor, which induces >1000-fold selectivity towards mTOR over PI3Kα in enzymatic binding assays. In A2058 melanoma cells PQR620 demonstrates inhibition of protein kinase B (pSer473) and ribosomal protein S6 (pSer235/236) phosphorylation with IC50 values of 0.2 μM and 0.1 μM, respectively. PQR620 shows excellent selectivity over a wide panel of kinases, as well as excellent selectivity versus unrelated receptor enzymes and ion channels. PQR620 demonstrates its potency to prevent cancer cell growth in an NTRC 44 cancer cell line panel, resulting in a 10log(IC50) of 2.86 (nM).

**In vivo Activity**

The physico-chemical properties of PQR620 result in good oral bioavailability and excellent brain penetration.

**Reference**


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Information for product storage and handling is indicated on the product datasheet. Targetmol products are stable for long term under the recommended storage conditions. Our products may be shipped under different conditions as many of them are stable in the short-term at higher or even room temperatures. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, please follow the storage recommendations on the product data sheet.