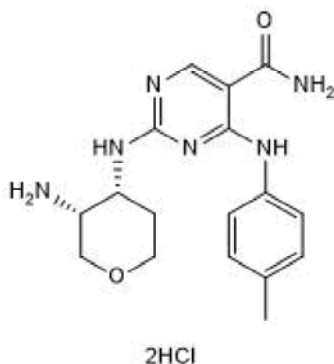


**Product Name:** GSK 143 **Catalog No.:** 6362 **Batch No.:** 1  
**CAS Number:** 2341796-81-2  
**IUPAC Name:** 2-[[[(3R,4R)-3-Aminotetrahydro-2H-pyran-4-yl]amino]-4-[(4-methylphenyl)amino]-5-pyrimidinecarboxamide dihydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>22</sub>N<sub>6</sub>O<sub>2</sub>·2HCl·2H<sub>2</sub>O  
**Batch Molecular Weight:** 451.35  
**Physical Appearance:** Off White solid  
**Solubility:** water to 100 mM  
DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.07 (10% methanol + 1% triethylamine in dichloromethane)  
**HPLC:** Shows 99.2% purity  
**Chiral HPLC:** Shows >99.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	45.24	6.25	18.62
Found	45.02	6.19	18.65

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1

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**Description:**

GSK 143 is a spleen tyrosine kinase (Syk) inhibitor ( $plC_{50} = 7.5$ ). Also inhibits phosphorylated Erk ( $plC_{50} = 7.1$ ). Decreases cell number and viability in chronic lymphocytic leukemia (CCL) cell lines.

**Physical and Chemical Properties:**

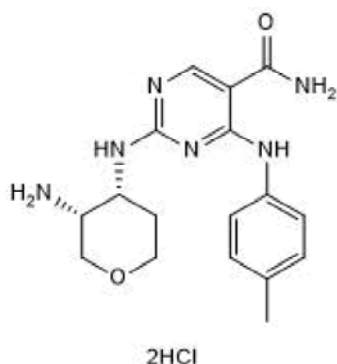
Batch Molecular Formula:  $C_{17}H_{22}N_6O_2 \cdot 2HCl \cdot 2H_2O$

Batch Molecular Weight: 451.35

Physical Appearance: Off White solid

**Minimum Purity:**  $\geq 98\%$

**Batch Molecular Structure:**



**Storage:** Store at  $-20^{\circ}C$

**Solubility & Usage Info:**

water to 100 mM

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  $45-60^{\circ}C$  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  $-20^{\circ}C$  or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

Varghese *et al* (2018) Highly selective SYK inhibitor, GSK143, abrogates survival signals in chronic lymphocytic leukaemia. *Br.J.Haematol* **182** 927. PMID: 28770560.

Liddle *et al* (2011) Discovery of GSK143, a highly potent, selective and orally efficacious spleen tyrosine kinase inhibitor. *Bioorg.Med.Chem.Lett.* **21** 6188. PMID: 21903390.

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