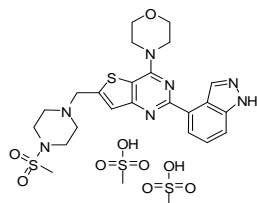




## Certificate of Analysis

**Axon Catalogue ID:** 1377 **Batch Number:** 6  
**Product Name:** GDC 0941 bismesylate  
**Alternative Name(s):** N.A.  
**IUPAC Name:** 2-(1H-Indazol-4-yl)-6-(4-methanesulfonyl-piperazin-1-ylmethyl)-4-morpholin-4-yl-thieno[3,2-d]pyrimidine bismesylate

**Structure:**



**Amount:**

**CAS number:** 957054-33-0  
**Batch Molecular Formula:** C<sub>25</sub>H<sub>35</sub>N<sub>7</sub>O<sub>9</sub>S<sub>4</sub>·0.25H<sub>2</sub>O **Batch MW:** 710.35  
**Appearance:** White solid **Observed m.p.:** 280 - 282 °C  
**TLC (R<sub>f</sub>):** 0.55 DCM/MeOH [9:1]  
**Chemical Purity:** 99.4% **Wavelength for purity check:** 312 nm  
**Optical Purity (ee):**  
**<sup>1</sup>H-NMR (300 MHz):** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** C, H, and N fit within 0,4% of theoretical calculation

**Storage Conditions:** Desiccate at <4°C

Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
Water	40	56	dissolves readily
1eq. NaOH			Not Tested
1eq. HCl			Not Tested
DMSO	15	22	slowly dissolving at 40 °C
EtOH			Not Tested

**Remarks:** Microanalysis: Calcd. C 42.27, H 5.04, N 13.80; Found: C 41.96, H 5.00, N 13.60.

**Quality controller:** Erik S. Vermeulen, PhD **Date:** 9/13/2012

The purity of Axon products is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to [info@axonmedchem.com](mailto:info@axonmedchem.com) indicating Axon Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**