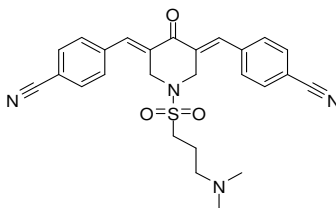




## Certificate of Analysis

**Axon Catalogue ID:** 3639 **Batch Number:** 1  
**Product Name:** PTX80  
**Alternative Name(s):** N.A.  
**IUPAC Name:** 4,4'-(1E,1'E)-(1-(3-(Dimethylamino)propylsulfonyl)-4-oxopiperidine-3,5-diyldiene)bis(methan-1-yl-1-ylidene)dibenzonitrile

**Structure:**



**Amount:**

**CAS number(s):** 2376297-69-5  
**Molecular Formula:** C<sub>26</sub>H<sub>26</sub>N<sub>4</sub>O<sub>3</sub>S **Molecular Weight:** 474.57  
**Batch Molecular Formula:** C<sub>26</sub>H<sub>26</sub>N<sub>4</sub>O<sub>3</sub>S.1.25H<sub>2</sub>O **Batch Molecular Weight:** 497.09  
**Appearance:** Yellow solid **Observed mp:** 184.8 - 188.4°C  
**TLC (R<sub>f</sub>):** 0.5 DCM/MeOH/TEA (9:1:01.1)  
**Chemical Purity:** 98.6%  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 62.82, H 5.78, N 11.27; Found: C 62.80, H 5.61, N 11.16  
**Storage Conditions:** Desiccate at -20 °C

Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
Water	0.0	0.0	Insoluble
0.1N NaOH (aq)			Not Tested
0.1N HCl (aq)	0.0	0.0	Insoluble
DMSO	2.2	4.5	Sparingly soluble
EtOH	0.0	0.0	Insoluble

**Remarks:** Suspected to be thermally unstable; store both solid material and stock solutions as cold as possible. It is recommended to use freshly prepared stock solutions for your experiments.

**QC Date:** 3-11-2022

The purity of Axon Ligands 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 Catalogue ID and Batch number.

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