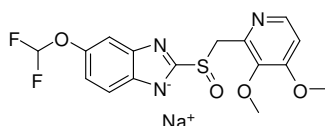




## Certificate of Analysis

**Axon Catalogue ID:** 3161 **Batch Number:** 1  
**Product Name:** Pantoprazole sodium  
**Alternative Name(s):** Protonix  
**IUPAC Name:** Sodium 5-(difluoromethoxy)-2-((3,4-dimethoxypyridin-2-yl)methylsulfanyl)benzo[d]imidazol-1-ide

**Structure:**



**Amount:**

**CAS number(s):** 102625-70-7 (parent), 138786-67-1 (sodium (1:1))  
**Molecular Formula:** C<sub>16</sub>H<sub>14</sub>F<sub>2</sub>N<sub>3</sub>NaO<sub>4</sub>S **Molecular Weight:** 405.35  
**Batch Molecular Formula:** C<sub>16</sub>H<sub>14</sub>F<sub>2</sub>N<sub>3</sub>NaO<sub>4</sub>S.2H<sub>2</sub>O **Batch Molecular Weight:** 441.38  
**Appearance:** White solid **Observed mp:** > 143 °C (decomp)  
**TLC (R<sub>f</sub>):** 0.45 DCM/MeOH (9:1)  
**Chemical Purity:** 99.3%  
**Optical Purity (ee):** N.A.  
**<sup>1</sup>H-NMR (300 MHz):** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 43.54, H 4.11, N 9.52; Found: C 43.84, H 3.89, N 9.44  
**Storage Conditions:** Desiccate at -20 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water		22.9	
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	44.1	>100 mM	
	EtOH			Not Tested

**Remarks:**

**QC Date:** 23-07-2020

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**