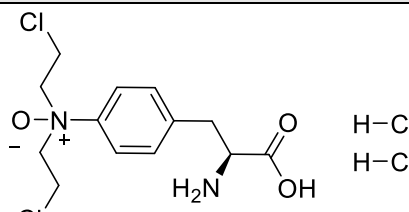


# Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
202350	PX-478 HCl	SSC50911

Chemical name	
(S)-4-(2-amino-2-carboxyethyl)-N,N-bis(2-chloroethyl)aniline oxide dihydrochloride	
Synonyms	
PX 478; PX-478; PX 478; PX478 HCl	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 202350 Name: PX-478 (2HCl salt) CAS#: 685898-44-6 Lot#: SSC50911 Chemical Formula: C <sub>13</sub> H <sub>20</sub> Cl <sub>4</sub> N <sub>2</sub> O <sub>3</sub> Molecular Weight: 394.12

Analysis item	Specifications / Results
Appearance	Brown solid powder. (Note: this product is highly hygroscopic, may become semisolid or waxy solid)
Structure	<sup>1</sup> H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature.
Purity	>95.0%
Solubility	Soluble in water or aqueous buffer
Additional information:	PX-478 was found to be not stable at basic buffer, and stable in acidic buffer. PX478 HCl is hygroscopic, and may become wax-like material after exposing in air, which will not impact the stability.
Conclusion	This product conforms with MedKoo's quality standards
Shipping condition	Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in customs.
Storage condition	Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition
Shelf life	At least 3 years if properly stored.

**CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE**