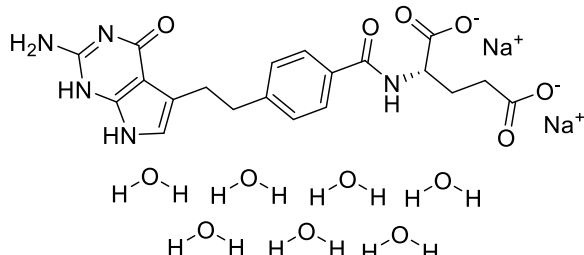


# Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
100710	Pemetrexed disodium heptahydrate	YYP30820

Chemical name	
(S)-2-(4-(2-(2-amino-4-oxo-4,7-dihydro-1H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl)benzamido)pentanedioate heptahydrate.	
Synonyms	
LY231514; LY-231514; LY 231514; Pemetrexed, US brand name: ALIMTA. Abbreviation: MTA.	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 100710 Name: Pemetrexed disodium heptahydrate CAS#: 357166-29-1 (sodium hydrate) Lot#: YYP30820 Chemical Formula: C <sub>20</sub> H <sub>33</sub> N <sub>5</sub> Na <sub>2</sub> O <sub>13</sub> Molecular Weight: 597.49

Analysis item	Specifications / Results
Appearance	Off-white to light yellow solid powder
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 (HPLC)	>99.0%
Solubility	Very poorly soluble in DMSO; soluble in water at 100 mg/mL; very poorly soluble in ethanol.
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 5 years if properly stored.

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