

产品名称: **Nelarabine**

产品别名: 奈拉滨

生物活性:

Description	<p>Nelarabine (Arranon, 506U78) is a purine nucleoside analog and DNA synthesis inhibitor with IC50 from 0.067-2.15 μM in tumor cells. Nelarabine is a chemotherapy drug used in T-cell acute lymphoblastic leukemia. IC50 Value: 0.44 uM (HSB2 cell lines); 1.24 μM(ALL-SIL cell lines); 2.15 μM(JURKAT cell lines); 0.067 uM (PER-255 cell lines) [1] Target: Nucleoside antimetabolite/analog in vitro: The IC50 of Nelarabine is 25-fold and 113-fold higher than ARAC in T- and B-lineage, respectively. T-ALL cells are eightfold more sensitive to Nelarabine than B-lineage but there is considerable overlap. The efficacy of NEL in T-lineage and B-lineage cell lines is 25-fold and 113-fold less than ARAC, respectively [1]. in vivo: The median age was 34 years (range, 16-66 years); 32 (82%) patients were male. The rate of complete remission was 31% (95% confidence interval [CI], 17%, 48%) and the overall response rate was 41% (95% CI, 26%, 58%). The principal toxicity was grade 3 or 4 neutropenia and thrombocytopenia, occurring in 37% and 26% of patients, respectively [2]. Nelarabine has activity in T-cell malignancies, as evaluated in 2 Phase I and 5 Phase II studies. It received accelerated approval from the FDA based on the results of 2 Phase II trials, one in pediatric patients (PGAA 2001) and the other in adults (CALGB 19801) Toxicity: The principal toxicity was grade 3 or 4 neutropenia and thrombocytopenia, occurring in 37% and 26% of patients, respectively [2]. Clinical trial: Drug Use Investigation for Arranon G (Nelarabine) Injection 250 mg.</p>				
Solvent&Solubility	<i>In Vitro:</i> DMSO : 9.8 mg/mL (32.97 mM; Need ultrasonic and warming)				
	Preparing Stock Solutions	<div><div>Solvent</div><div>Mass</div><div>Concentration</div></div>	1 mg	5 mg	10 mg
		1 mM	3.3639 mL	16.8197 mL	33.6395 mL
		5 mM	0.6728 mL	3.3639 mL	6.7279 mL
		10 mM	0.3364 mL	1.6820 mL	3.3639 mL
<p><i>*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液 一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。</i></p> <p>储备液的保存方式和期限 -80℃, 6 months; -20℃, 1 month。 -80℃ 储存时，请在 6 个月内使用， -20℃ 储存时，请在 1 个月内使用。</p>					
References	<p>[1]. Beesley AH, et al. In vitro cytotoxicity of nelarabine, clofarabine and flavopiridol in paediatric acute lymphoblastic leukaemia. Br J Haematol. 2007 Apr;137(2):109-16.</p> <p>[2]. DeAngelo DJ, et al. Nelarabine induces complete remissions in adults with relapsed or refractory T-lineage acute lymphoblastic leukemia or lymphoblastic lymphoma: Cancer and Leukemia Group B study 19801. Blood. 2007 Jun 15;109(12):5136-42.</p>				