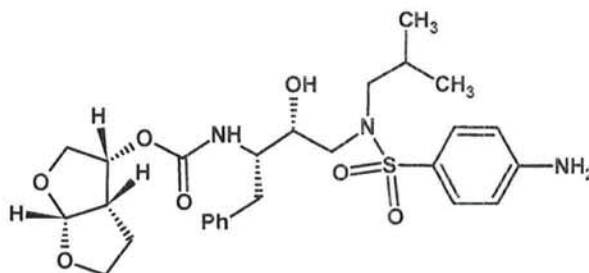


## Certificate of Analysis

<b>Product Name:</b>	Compound 13 Darunavir, isopropanol recrystallized
<b>Product Number:</b>	
<b>Lot Number:</b>	C13-040415-I
<b>Amount:</b>	0.4 g
<b>Chemical Name:</b>	[(1S,2R)-3-[[[4-aminophenyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-carbamic acid (3R,3aS,6aR)-hexahydrofuro[2,3-b]furan-3-yl ester
<b>CAS Number:</b>	20631-99-1
<b>Chemical Formula:</b>	C <sub>27</sub> H <sub>37</sub> N <sub>3</sub> O <sub>7</sub> S
<b>Molecular Weight:</b>	547.66 g/mole


**Structure:**



Compound 13, Darunavir

<b>Appearance:</b>	Very fine powder (recrystallized from isopropanol)
<b>Purity (HPLC-UV<sub>254</sub>):</b>	97%
<b>Mp (°C, uncorrected)</b>	101-104 °C
<b>NMR (CDCl<sub>3</sub>)</b>	Consistent with structure
<b>LRMS (ESI+)</b>	Consistent with molecular formula
<b>Solubility:</b>	EtOAc, DCM, ethanol
<b>TLC (Silica gel 60 F<sub>254</sub>)</b>	NA
<b>Storage:</b>	2-8 °C, protect from light and moisture

**Certified by:**

  
 \_\_\_\_\_  
**Chief Operating Officer**

**Date:**

\_\_\_\_\_  
 4/8/15