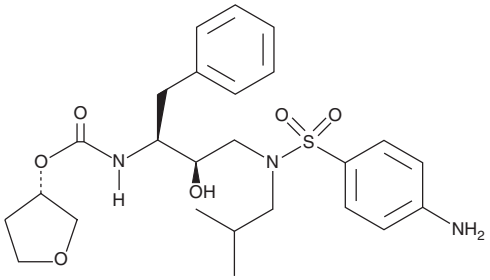
PRODUCT INFORMATION

Amprenavir

Item No. 15369

CAS Registry No.:	161814-49-9
Formal Name:	N-[(1S,2R)-3-[[(4-aminophenyl) sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-carbamic acid, (3S)-tetrahydro-3-furanyl ester
Synonym:	VX-478
MF:	$C_{25}H_{35}N_3O_6S$
FW:	505.6
Purity:	≥95%
UV/Vis.:	λ_{max}: 268 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Amprenavir is supplied as a crystalline solid. A stock solution may be made by dissolving the amprenavir in the solvent of choice, which should be purged with an inert gas. Amprenavir is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of amprenavir in ethanol and DMF is approximately 30 mg/ml and approximately 25 mg/ml in DMSO.

Amprenavir is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, amprenavir should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Amprenavir has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Amprenavir is an inhibitor of HIV protease (K_i = 0.04 nM).[1] It inhibits the cytopathic effects of HIV-1 in MT-4 cells (IC_{50} = 150 nM). Formulations containing amprenavir have been used in combination with other antiretroviral agents in the treatment of HIV-1 infection.

Reference

1. Sherrill, R.G., Furfine, E.S., Hazen, R.J., *et al*. Synthesis and antiviral activities of novel N-alkoxy-arylsulfonamide-based HIV protease inhibitors. *Bioorg. Med. Chem. Lett*. **15(15)**, 3560-3564 (2005).

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